



**QUARTERLY GROUNDWATER MONITORING REPORT**

**Prepared for**

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

**OCTOBER 1997**

**Prepared by**

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## SECTION 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.

## SECTION 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 1997.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. 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 160 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 1997 are included in Appendix A.

#### 2.3 GROUNDWATER QUALITY DATA

For the reporting period of July through September 1997, approximately 174 lbs 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 of trichloroethene

**Table 2-1**  
**Treatment System Pumping Records - 3rd Quarter 1997**  
**Black & Decker**  
**Hampstead, Maryland**

<b>Date</b>	<b>Water pumped (gallons)</b>
July 1997	7,367,211
August 1997	7,157,007
September 1997	6,728,300

**Table 2-2**  
**Groundwater Elevation Data - 3rd Quarter 1997**  
**Black & Decker**  
**Hampstead, Maryland**

WELL NO.	TOC ELEV.	TOTAL DEPTH	7/9/97		8/13/97		9/17/97	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	NA	--	NA	--	NA	--
EW-2	849.21	110	101.34	747.87	101.43	747.78	100.94	748.27
EW-3	846.64	118	84.71	761.93	85.67	760.97	85.31	761.33
EW-4	858.01	97.5	93.75	764.26	80.84	777.17	84.73	773.28
EW-5	864.17	98	87.96	776.21	86.83	777.34	86.94	777.23
EW-6	831.98	115	58.76	773.22	59.39	772.59	60.25	771.73
EW-7	818.38	78	36.08	782.30	34.71	783.67	42.40	775.98
EW-8	811.13	98	50.45	760.68	55.89	755.24	57.76	753.37
EW-9	811.35	141	82.31	729.04	87.75	723.60	88.22	723.13
EW-10	807.74	NA	48.28	759.46	51.63	756.11	52.69	755.05
RFW-1A	864.37	78	50.11	814.26	51.64	812.73	52.93	811.44
RFW-1B	864.23	200	50.41	813.82	51.66	812.57	52.83	811.40
RFW-2A	857.41	35	15.72	841.69	17.48	839.93	18.73	838.68
RFW-2B	857.73	75	16.33	841.40	18.08	839.65	19.35	838.38
RFW-3B	839.21	153	29.80	809.41	31.90	807.31	32.05	807.16
RFW-4A	830.37	62	36.69	793.68	37.33	793.04	37.73	792.64
RFW-4B	830.37	120	36.99	793.38	37.19	793.18	37.66	792.71
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	3.04	782.00	3.13	781.91	2.97	782.07
RFW-7	805.14	29	7.66	797.48	8.07	797.07	7.36	797.78
RFW-8	860.07	56	DRY	--	DRY	--	DRY	--
RFW-9	862.02	49	26.28	835.74	27.55	834.47	28.47	833.55
RFW-10	852.06	58	58.18	793.88	58.67	793.39	59.13	792.93
RFW-11A	849.32	72	68.80	780.52	69.11	780.21	69.64	779.68
RFW-11B	849.62	116	76.64	772.98	76.75	772.87	77.15	772.47
RFW-12B	844.87	264	52.82	792.05	53.46	791.41	54.03	790.84
RFW-13	849.11	150	56.73	792.38	58.27	790.84	59.81	789.30
RFW-14B	812.39	281	37.13	775.26	39.69	772.70	42.37	770.02
RFW-16	856.14	41	DRY	--	DRY	--	DRY	--
RFW-17	834.66	60.5	26.98	807.68	27.85	806.81	28.55	806.11
RFW-18	843.67	50	4.42	839.25	5.23	838.44	5.67	838.00
RFW-19	858.28	60	7.41	850.87	8.19	850.09	9.22	849.06
RFW-20	842.49	142	34.56	807.93	35.87	806.62	36.58	805.91
RFW-21	832.65	102	20.72	811.93	21.73	810.92	22.97	809.68
PH-7	805.94	89	29.05	776.89	31.62	774.32	33.17	772.77
PH-9	814.94	98	30.86	784.08	33.98	780.96	36.98	777.96
PH-11	820.68	78	39.50	781.18	40.09	780.59	40.33	780.35
PH-12	828.35	87	41.61	786.74	43.56	784.79	45.21	783.14
B-2	807.68	100	7.44	800.24	9.34	798.34	9.76	797.92
B-3	803.02	83	8.05	794.97	10.42	792.60	10.91	792.11
Amoco	842.29	NA	22.39	819.90	23.82	818.47	25.17	817.12
Hamp. Town #22	804.96	NA	1.98	802.98	3.16	--	2.67	--
Pembroke #1	NA	NA	13.11	--	NA	--	15.63	--
Pembroke #2	NA	NA	NA	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	9.64	--	NA	--	NA	--
E. Century St.	NA	NA	10.87	--	11.14	--	17.17	--
Lwr. Beckleys. Rd.	NA	NA	50.92	--	52.36	--	53.58	--

NA - Not Available/Not Accessible

**Table 2-3**  
**Effluent Characteristics Summary - 3rd Quarter 1997**  
**Black & Decker**  
**Hampstead, Maryland**

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				July 1997	August 1997	September 1997	
001	FLOW	average	MGD	NA	0.053	0.088	0.077
		maximum	MGD	NA	0.081	0.131	0.154
	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	6.67	6.50	6.71
		maximum	STD	8.5	7.34	7.29	7.02
	BOD		mg/l	15	5	5	< 5
TSS	maximum	mg/l	30	5	4	5	
	quarterly average	mg/l	20	NR	NR	5	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.257	0.531	0.561
		maximum	MGD	NA	0.264	0.538	0.584
	Fecal Coliform		MPN/100ml	200	< 2	< 2	< 2
201 (Monitoring Point)	FLOW	average	MGD	NA	0.238	0.231	0.224
		maximum	MGD	NA	0.251	0.259	0.238
	1,1,1-Trichloroethane		ug/l	NA	< 5	< 5	< 5
	Tetrachloroethylene		ug/l	NA	< 5	< 5	< 5
	Trichloroethylene		ug/l	NA	< 5	< 5	< 5

NA - Not Applicable

NR - Not Reported



(TCE) (79 %) and tetrachlorethene (PCE) (21 %). Analytical results of the groundwater collected at the inlet to the air stripper for the period of July through September 1997 are included in Appendix B.

A summary of the analytical results from the third quarter (August 1997) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete analytical data package is included in Appendix C. 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. VOCs detected at lower concentrations were 1,2-dichloroethene, 1,1,1-trichloroethane, 1,1-dichloroethene, and 1,1,2-trichloroethane. The remainder of VOCs present were detected at levels well below the Federal Maximum Contaminant Levels (MCL).

Table 2-4  
 Summary of Groundwater Analytical Results - August 1997  
 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-10	EW-10 (DUP)	RFW-1A	RFW-1B	RFW-2A
			(25)	(10)	(25)	(10)				(2)	(5)				
Chloromethane	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	190 B	17 J	270 B	100 B	10 B	5 U	8 JB	32 B	5 JB	5 JB	5 U	2 J	5 U
Acetone	ug/L	NS	110 JB	100 U	250 U	100 U	10 U	10 U	8 JB	14 JB	10 U	8 JB	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	120 U	50 U	120 U	50 U	5 U	11	30	9 J	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	2600	840	2300	1300	12	16	16	11 J	2 J	2 J	5 U	5 U	2 J
Dibromochloromethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	250 U	100 U	250 U	100 U	10 U	10 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	76 J	20 J	81 J	38 J	58	40	200	970	140	140	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	120 U	50 U	120 U	50 U	5 U	5 U	10 U	25 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 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.

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Table 2-4  
 Summary of Groundwater Analytical Results - August 1997  
 Black & Decker  
 Hampstead, Maryland

PARAMETER	Units	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-4B (DUP)	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10 (10)	RFW-11A	RFW-11B	RFW-12B (25)
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	2 JB	10 U	250 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
Methylene Chloride	ug/L	9 B	4 JB	3 JB	8 B	1 JB	NS	2 JB	5 U	NS	5 U	49 JB	3 JB	5 U	69 JB
Acetone	ug/L	10 U	7 JB	10 U	12 B	8 JB	NS	12 B	10 U	NS	10 U	100 U	10 U	10 U	250 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
1,1-Dichloroethene	ug/L	5 U	1 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
1,1-Dichloroethane	ug/L	5 U	2 J	5 U	5 U	5 U	NS	5 U	5 U	NS	4 J	50 U	5 U	5 U	120 U
1,2-Dichloroethene (total)	ug/L	5 U	49	5 J	7	7	NS	4 J	5 U	NS	8	50 U	5 U	5 U	120 U
Chloroform	ug/L	5 U	5 U	2 J	2 J	1 J	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
2-Butanone	ug/L	10 U	10 U	10 U	3 J	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
1,1,1-Trichloroethane	ug/L	5 U	3 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Vinyl Acetate	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Trichloroethene	ug/L	2 J	26	160	47	44	NS	28	16	NS	24	1500	93	22	2600
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	100 U	10 U	10 U	250 U
Tetrachloroethene	ug/L	5 U	49	220	97	92	NS	24	5 U	NS	6	46 J	2 J	5 U	82 J
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	50 U	5 U	5 U	120 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  
 Summary of Groundwater Analytical Results - August 1997  
 Black & Decker  
 Hampstead, Maryland

PARAMETER	Units	RFW-13	RFW-16	RFW-17	RFW-18	RFW-19	Town #22	Town #23	Lelster Dairy	Lelster Res. #1	Lelster Res. #2	Field Blank	Trip Blank
Chloromethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	3 JB	NS	5 U	1 JB	7	4 JB	NS	6	2 J	2 JB	4 JB	7 B
Acetone	ug/L	5 JB	NS	10 U	10 U	10 U	6 JB	NS	10 U	10 U	10 U	6 JB	10 JB
Carbon Disulfide	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	1 J	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 J	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	8	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	54	NS	5 U	5 U	5 U	5 U	NS	3 J	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	NS	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 quantification. 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.

**SECTION 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 1997) 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 1997**  
**Black & Decker**  
**Hampstead, Maryland**

<b>Date</b>	<b>Event/Corrective Action</b>
July 1997	Extraction well EW-6 not operating due to faulty temperature switch/transducer. Replaced temperature switch/transducer. EW-6 operating properly.
August 1997	Contractor calibrates air stripper instruments, including the column level transducer, the by-pass valve controller, and pressure transducer.
September 1997	Installed a new flow meter instrument at extraction well EW-2.

**SECTION 4**  
**RECOMMENDATIONS**

For the reporting period of July through September 1997, 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**  
**DISCHARGE MONITORING REPORTS**  
**(JULY - SEPTEMBER 1997)**



PERMITTEE NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**001**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	07	01	97	07	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.053	0.081	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS	MEASURED
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5	ppb		1/MONTH	GRAB
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT						<0.1		0	4/MONTH	GRAB
	PERMIT REQUIREMENT						<0.1	mg/l		1/MONTH	GRAB
OIL & GREASE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						10	15	mg/l	1/MONTH	GRAB
pH	SAMPLE MEASUREMENT				6.67		7.34		0	2/WEEK	GRAB
	PERMIT REQUIREMENT				6.00		8.50		STD	2/WEEK	GRAB
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE	DATE		
<b>LaVere N. Grimes</b> <b>Facilities Manager</b>	<i>LaVere N. Grimes</i>							410-239-5555	97   08   01		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE-NUMBER	YEAR   MO   DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FOR APPROVED  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER

**001**  
 DISCHARGE NUMBER

FACILITY:

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD

FROM: YEAR **97** MO **07** DAY **01** TO: YEAR **97** MO **07** DAY **31**

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					
BOD	SAMPLE MEASUREMENT							5	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT							15		1/MONTH	GRAB	
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT							5	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT					20	30	1/MONTH		GRAB		
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: **410-239-5555**  
 DATE: **97 | 08 | 01**  
 AREA CODE-NUMBER: **103**

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No.2040-0004

**MD0001881**  
 PERMIT NUMBER

**101**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY: \_\_\_\_\_

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	07	01	97	07	31

LOCATION: **CARROLL COUNTY**

FROM

TO

(20-21)

(22-23)

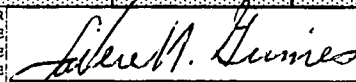
(24-25)

(26-27)

(28-26)

(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	0.257	0.264	MGD				0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED	
FECAL COLIFORM	SAMPLE MEASUREMENT					<2	MPN/100ml	0	1/WEEK	GRAB
	PERMIT REQUIREMENT					200			1/WEEK	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREBIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 1 year.)							TELEPHONE	DATE	
<b>LaVere N. Grimes</b> <b>Facilities Manager</b>								410-239-5555	97   08   01	
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME AND ADDRESS: (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER

**201**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	07	01	97	07	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)			
FLOW	SAMPLE MEASUREMENT	0.238	0.251	MGD				0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED	
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH GRAB	
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH GRAB	
TRICHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH GRAB	
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 410-239-5555  
 AREA CODE-NUMBER

DATE  
 97 | 08 | 01  
 YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS  
 (Reference all attachments here)

PERMITTEE NAME AND ADDRESS (Include Facility Name/Location if different)

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM NO. 3320-1  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**001**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	97	08	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.088	0.131	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS	MEASURED
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5		ppb	1/MONTH	GRAB
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5		ppb	1/MONTH	GRAB
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						5		ppb	1/MONTH	GRAB
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT						<0.1		0	5/MONTH	GRAB
	PERMIT REQUIREMENT						<0.1		mg/l	1/MONTH	GRAB
OIL & GREASE	SAMPLE MEASUREMENT						<5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT						10	15	mg/l	1/MONTH	GRAB
pH	SAMPLE MEASUREMENT				6.50		7.29		0	2WEEK	GRAB
	PERMIT REQUIREMENT				6.00		8.50		STD	2WEEK	GRAB

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 09 | 04  
 AREA CODE-NUMBER: 410-239-5555  
 YEAR | MO | DAY: 97 | 09 | 04

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME AND ADDRESS (Include Facility Name/Location if different)  
**NAME: BLACK & DECKER (U.S.) INC.**  
**ADDRESS: 626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM NO. 3320-1 LD  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**001**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY: \_\_\_\_\_

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	97	08	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
BOD	SAMPLE MEASUREMENT						5	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						15		1/MONTH	GRAB	
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT						4	mg/l	0	1/MONTH	GRAB
	PERMIT REQUIREMENT						20		30	1/MONTH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 09 | 04  
 AREA CODE-NUMBER: 10.3

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME AND ADDRESS (Include Facility Name/Location if different)

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

EPA FORM T-40  
 OMB No. 2060-0004

**MD0001881**  
 PERMIT NUMBER

**101**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY: \_\_\_\_\_

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	08	01	97	08	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	0.531	0.538	MGD				0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED	
FECAL COLIFORM	SAMPLE MEASUREMENT					<2	MPN/100ml	0	1/WEEK	GRAB
	PERMIT REQUIREMENT					200			1/WEEK	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 09 | 04  
 AREA CODE-NUMBER: \_\_\_\_\_  
 YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME AND ADDRESS: (Include Facility Name/Location if different)

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM A-101  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER

**201**  
 DISCHARGE NUMBER

(2-16)

(17-19)

**MONITORING PERIOD**

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	97	08	01		97	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

FACILITY: \_\_\_\_\_

LOCATION: **CARROLL COUNTY**

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	0.231	0.259	MGD					0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS MEASURED	
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT						<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT						N/A			1/MONTH GRAB	
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT						<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT						N/A			1/MONTH GRAB	
TRICHLOROETHYLENE	SAMPLE MEASUREMENT						<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT						N/A			1/MONTH GRAB	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THIS INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 09 | 04  
 AREA CODE-NUMBER: 410-239-5555  
 YEAR | MO | DAY: 97 | 09 | 04

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)



PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)

NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No.2040-0004

**MD0001881**  
 PERMIT NUMBER

**001**  
 DISCHARGE NUMBER

(2-16)

(17-16)

FACILITY:

LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	09	01	97	09	30
(20-21)	(22-25)	(24-25)	(26-27)	(28-26)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	0.077	0.154	MGD				0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT						CONTINUOUS MEASURED	
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					5			1/MONTH GRAB	
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					5			1/MONTH GRAB	
TRICHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					5			1/MONTH GRAB	
TOTAL RESIDUAL CHLORINE	SAMPLE MEASUREMENT					<0.1	mg/l	0	3/MONTH GRAB	
	PERMIT REQUIREMENT					<0.1			1/MONTH GRAB	
OIL & GREASE	SAMPLE MEASUREMENT					<5	mg/l	0	1/MONTH GRAB	
	PERMIT REQUIREMENT					10	15		1/MONTH GRAB	
pH	SAMPLE MEASUREMENT				6.71	7.02	STD	0	2/WEEK GRAB	
	PERMIT REQUIREMENT				6.00	8.50			2/WEEK GRAB	

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 10 | 01  
 AREA CODE-NUMBER: 410-239-5555  
 YEAR | MO | DAY: 97 | 10 | 01

COMMENT AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
 NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**001**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
97	09	01	97	09	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-26)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
BOD	SAMPLE MEASUREMENT								0	1/MONTH	GRAB
	PERMIT REQUIREMENT							mg/l		1/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT					5	5		0	1/MONTH	GRAB
	PERMIT REQUIREMENT					20	30	mg/l		1/MONTH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER  
**LaVere N. Grimes**  
**Facilities Manager**  
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 410-239-5555  
 DATE: 97 | 10 | 01  
 AREA CODE-NUMBER: 10.3

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
 NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

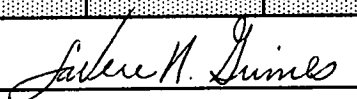
**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**101**  
 DISCHARGE NUMBER  
 (17-16)

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	09	01	97	09	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-26)	(30-31)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0.561	0.584	MGD					0	CONTINUOUS	MEASURED
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS	MEASURED
FECAL COLIFORM	SAMPLE MEASUREMENT					<2		MPN/ 100ml	0	1/WEEK	GRAB
	PERMIT REQUIREMENT					200				1/WEEK	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE	DATE	
<b>LaVere N. Grimes</b> <b>Facilities Manager</b> TYPED OR PRINTED									 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		410-239-5555
COMMENT AND EXPLANATION OF ANY VIOLATIONS									AREA CODE-NUMBER	YEAR   MO   DAY	

(Reference all attachments here)

PERMITTEE NAME/ADDRESS: (Include Facility Name/Location if different)  
 NAME: **BLACK & DECKER (U.S.) INC.**  
 ADDRESS: **626 HANOVER PIKE**  
**HAMPSTEAD, MD. 21074**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**

FORM APPROVED  
 OMB No. 2040-0004

**MD0001881**  
 PERMIT NUMBER  
 (2-16)

**201**  
 DISCHARGE NUMBER  
 (17-16)

FACILITY:  
 LOCATION: **CARROLL COUNTY**

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	09	01	97	09	30
(20-21)	(22-25)	(24-25)	(26-27)	(28-26)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			UNITS	NO. EX	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	0.224	0.238	MGD					0	CONTINUOUS MEASURED	
	PERMIT REQUIREMENT	NO LIMIT	NO LIMIT							CONTINUOUS MEASURED	
1,1,1-TRICHLOROETHANE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH	GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH	GRAB	
TETRACHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH	GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH	GRAB	
TRICHLOROETHYLENE	SAMPLE MEASUREMENT					<5	ppb	0	1/MONTH	GRAB	
	PERMIT REQUIREMENT					N/A			1/MONTH	GRAB	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME / TITLE PRINCIPAL EXECUTIVE OFFICER								TELEPHONE	DATE		
LaVere N. Grimes Facilities Manager								410-239-5555	97   10   01		
TYPED OR PRINTED								AREA CODE-NUMBER	YEAR   MO   DAY		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

*LaVere N. Grimes*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**APPENDIX B**  
**PRE-STRIPPER ANALYTICAL RESULTS**  
**(JULY - SEPTEMBER 1997)**

# Gascoyne Laboratories, Inc.



YOUR ON-TIME QUALITY LAB...

Baltimore, MD 21224

## REPORT OF ANALYSIS

Page 3 of 7

(410) 633-1800

(800) GAS-COYN

FAX NO.

(410) 633-5443

Report no: 9702169

Client: Black & Decker Company

Sample id: Collected samples by: Gascoyne Labs, Inc. AIR STRIPPER #2(PRE), collected on 02-Jul-1997(09:49)  
Laboratory Sample Number: 970011236

Parameter	Test Results	Reporting Limit	Method	Analyst	Date of Analysis
Acrolein	<100 ppb	100 ppb	EPA-624	TLN	16-Jul-97
Acrylonitrile	<100 ppb	100 ppb	EPA-624	TLN	16-Jul-97
Benzene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Bromomethane	<10 ppb	10 ppb	EPA-624	TLN	16-Jul-97
Carbon Tetrachloride	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Chlorobenzene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Chloromethane	<10 ppb	10 ppb	EPA-624	TLN	16-Jul-97
1,2-Dichloropropane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,1,1-Trichloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,1-Dichloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Chloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
2-Chloroethylvinyl Ether	<10 ppb	10 ppb	EPA-624	TLN	16-Jul-97
Chloroform	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,1-Dichloroethene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
trans-1,2-Dichloroethene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,2-Dichloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
cis-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
trans-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Ethylbenzene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Methylene Chloride	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,1,2-Trichloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Bromodichloromethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Bromoform	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Dibromochloromethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Trichlorofluoromethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,1,2,2-Tetrachloroethane	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Tetrachloroethene	180 ppb	50 ppb	EPA-624	TLN	16-Jul-97
Toluene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Trichloroethene	720 ppb	50 ppb	EPA-624	TLN	16-Jul-97
Vinyl Chloride	<10 ppb	10 ppb	EPA-624	TLN	16-Jul-97
1,2-Xylene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,3-Xylene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
1,4-Xylene	<5 ppb	5 ppb	EPA-624	TLN	16-Jul-97
Total Xylenes	<10 ppb	10 ppb	EPA-624	TLN	16-Jul-97

# Gascoyne Laboratories, Inc.

YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

## REPORT OF ANALYSIS

(410) 633-1800

(800) GAS-COYN

FAX NO.  
(410) 633-5443

www.gascoyne.com

Page 5 of 11

Report no: 9702975

Client: Black & Decker Company

Sample Id: Collected samples by: Gascoyne Labs, Inc. AIR STR. #2(PRE), collected on 07-Aug-1997(08:19)  
Laboratory Sample Number: 970015539

Parameter	Test Results	Reporting Limit	Method	Analyst	Date of Analysis
Acrolein	<100 ppb	100 ppb	EPA-624	SJN	15-Aug-97
Acrylonitrile	<100 ppb	100 ppb	EPA-624	SJN	15-Aug-97
Benzene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Bromomethane	<10 ppb	10 ppb	EPA-624	SJN	15-Aug-97
Carbon Tetrachloride	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Chlorobenzene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Chloromethane	<10 ppb	10 ppb	EPA-624	SJN	15-Aug-97
1,2-Dichloropropane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,1,1-Trichloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,1-Dichloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Chloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
2-Chloroethylvinyl Ether	<10 ppb	10 ppb	EPA-624	SJN	15-Aug-97
Chloroform	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,1-Dichloroethene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
trans-1,2-Dichloroethene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,2-Dichloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
cis-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
trans-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Ethylbenzene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Methylene Chloride	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,1,2-Trichloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Bromodichloromethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Bromoform	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Dibromochloromethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Trichlorofluoromethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
1,1,2,2-Tetrachloroethane	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Tetrachloroethene	230 ppb	100 ppb	EPA-624	SJN	15-Aug-97
Toluene	<5 ppb	5 ppb	EPA-624	SJN	15-Aug-97
Trichloroethene	800 ppb	100 ppb	EPA-624	SJN	15-Aug-97

# Gascoyne Laboratories, Inc.

YOUR **ON-TIME** QUALITY LAB...

Baltimore, MD 21224

## REPORT OF ANALYSIS

(410) 633-1800

(800) GAS-COYN

FAX NO.  
(410) 633-5443

[www.gascoyne.com](http://www.gascoyne.com)

Page 6 of 11

Report no: 9702975

Client: Black & Decker Company

Sample Id: Collected samples by: Gascoyne Labs, Inc. AIR STR. #2(PRE), collected on 07-Aug-1997(08:19)  
Laboratory Sample Number: 970015539

Parameter	Test Results	Reporting Limit	Method	Analyst	Date of Analysis
Vinyl Chloride	<10 ppb	10 ppb	EPA-624	SJN	15-Aug-97
Total Xylenes	<10 ppb	10 ppb	EPA-624	SJN	15-Aug-97
Dibromofluoromethane(surrogate)	102 % Rec	NA	EPA-624	SJN	15-Aug-97
1,2-Dichloroethane-d4(surrogate)	107 % Rec	NA	EPA-624	SJN	15-Aug-97
Toluene-d8(surrogate)	98 % Rec	NA	EPA-624	SJN	15-Aug-97
Bromofluorobenzene(surrogate)	102 % Rec	NA	EPA-624	SJN	15-Aug-97



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Page 5 of 11

Report no: 9703555

Client: Black & Decker Company

Sample Id: Collected samples by: Gascoyne Labs, Inc. AIR STRIPPER 2 (PRE), GRAB, collected on 03-Sep-19  
Laboratory Sample Number: 970018556

Parameter	Test Results	Reporting Limit	Method	Analyst	Date of Analysis
Acrolein	<100 ppb	100 ppb	EPA-624	TLN	11-Sep-97
Acrylonitrile	<100 ppb	100 ppb	EPA-624	TLN	11-Sep-97
Benzene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Bromomethane	<10 ppb	10 ppb	EPA-624	TLN	11-Sep-97
Carbon Tetrachloride	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Chlorobenzene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Chloromethane	<10 ppb	10 ppb	EPA-624	TLN	11-Sep-97
1,2-Dichloropropane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,1,1-Trichloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,1-Dichloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Chloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
2-Chloroethylvinyl Ether	<10 ppb	10 ppb	EPA-624	TLN	11-Sep-97
Chloroform	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,1-Dichloroethene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
trans-1,2-Dichloroethene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,2-Dichloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
cis-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
trans-1,3-Dichloropropene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Ethylbenzene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Methylene Chloride	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,1,2-Trichloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Bromodichloromethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Bromoform	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Dibromochloromethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Trichlorofluoromethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
1,1,2,2-Tetrachloroethane	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Tetrachloroethene	220 ppb	50 ppb	EPA-624	TLN	11-Sep-97
Toluene	<5 ppb	5 ppb	EPA-624	TLN	11-Sep-97
Trichloroethene	790 ppb	50 ppb	EPA-624	TLN	11-Sep-97
Vinyl Chloride	<10 ppb	10 ppb	EPA-624	TLN	11-Sep-97
Total Xylenes	<10 ppb	10 ppb	EPA-624	TLN	11-Sep-97
Dibromofluoromethane(surrogate)	95 % Rec	NA	EPA-624	TLN	11-Sep-97
1,2-Dichloroethane-d4(surrogate)	97 % Rec	NA	EPA-624	TLN	11-Sep-97
Toluene-d8(surrogate)	103 % Rec	NA	EPA-624	TLN	11-Sep-97

# Gascoyne Laboratories, Inc.



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Baltimore, MD 21224

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Page 6 of 11

Report no: 9703555

Client: Black & Decker Company

Sample Id: Collected samples by: Gascoyne Labs, Inc. AIR STRIPPER 2 (PRE), GRAB, collected on 03-Sep-19  
Laboratory Sample Number: 970018556

Parameter	Test Results	Reporting Limit	Method	Analyst	Date of Analysis
Bromofluorobenzene(surrogate)	101 % Rec	NA	EPA-624	TLN	11-Sep-97

**APPENDIX C**  
**GROUNDWATER ANALYTICAL DATA PACKAGE**  
**(AUGUST 1997)**



**Recra LabNet Philadelphia  
Analytical Report**

**Client :** BLACK & DECKER-HAMPSTEAD  
**RFW# :** 9708L898

**W.O. #:** 02501-004-001-0200-00  
**Date Received:** 08-15-97

**GC/MS VOLATILE**

The set of samples consisted of twenty (20) water samples collected on 08-13,14-97.

The samples were analyzed according to criteria set forth in SW 846 Method 8260A for TCL Volatile target compounds on 08-22,25,26,27-97.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The required holding time for analysis was met.
3. Non-target compounds were detected in these samples.
4. The following samples required dilution because they contained high levels of target compounds:

<u>Sample ID</u>	<u>Dilution Factor</u>
EW-4	25
EW-5	10
EW-3	10
RFW-10	10
RFW-12B	25

5. All surrogate recoveries were within EPA QC limits.
6. All matrix spike recoveries were within EPA QC limits.
7. All blank spike recoveries were within EPA QC limits.
8. The method blanks 97LVK177-MB1 and 97LVK181-MB1 contained the common contaminant Methylene Chloride at levels less than the CRQL.

*J. Michael Taylor*  
 for J. Michael Taylor  
 Vice President and Laboratory Manager  
 Lionville Analytical Laboratory

9-22-97  
 Date

mmz\voa\08-898v.cn

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 40 pages.

## GLOSSARY OF VOA DATA

### DATA QUALIFIERS

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.



## GLOSSARY OF VOA DATA

### ABBREVIATIONS

- BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD = Indicates blank spike duplicate.
- MS = Indicates matrix spike.
- MSD = Indicates matrix spike duplicate.
- DL = Suffix added to sample number to indicate that results are from a diluted analysis.
- NA = Not Applicable.
- DF = Dilution Factor.
- NR = Not Required.
- SP, Z = Indicates Spiked Compound.





Cust ID: RFW-18 RFW-18 RFW-18 RFW-19 RFW-17 RFW-2A

RFW#: 001 001 MS 001 MSD 002 003 004

Toluene	5 U	101 %	106 %	5 U	5 U	5 U
Chlorobenzene	5 U	98 %	105 %	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

005

\*= Outside of EPA CLP QC limits.



Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 15:00

RFW Batch Number: 9708L898

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 2a

Sample Information	Cust ID:	RFW-2B	RFW-7	RFW-1A	EW-4	EW-5	RFW-9
	RFW#:	005	006	007	008	009	010
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	25.0	10.0	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	Toluene-d8	98 %	102 %	106 %	107 %	96 %	106 %
Recovery	Bromofluorobenzene	95 %	97 %	100 %	102 %	96 %	104 %
	1,2-Dichloroethane-d4	95 %	99 %	105 %	109 %	98 %	107 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane		10 U	10 U	10 U	250 U	100 U	10 U
Bromomethane		10 U	10 U	10 U	250 U	100 U	10 U
Vinyl Chloride		10 U	10 U	10 U	250 U	100 U	10 U
Chloroethane		10 U	10 U	10 U	250 U	100 U	10 U
Methylene Chloride		9 B	5 U	5 U	270 B	100 B	5 U
Acetone		10 U	10 U	10 U	250 U	100 U	10 U
Carbon Disulfide		5 U	5 U	5 U	120 U	50 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	120 U	50 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	120 U	50 U	4 J
1,2-Dichloroethene (total)		5 U	5 U	5 U	120 U	50 U	8
Chloroform		5 U	5 U	5 U	120 U	50 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	120 U	50 U	5 U
2-Butanone		10 U	10 U	10 U	250 U	100 U	10 U
1,1,1-Trichloroethane		5 U	5 U	5 U	120 U	50 U	5 U
Carbon Tetrachloride		5 U	5 U	5 U	120 U	50 U	5 U
Vinyl Acetate		10 U	10 U	10 U	250 U	100 U	10 U
Bromodichloromethane		5 U	5 U	5 U	120 U	50 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	120 U	50 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	120 U	50 U	5 U
Trichloroethene		2 J	16	5 U	2300	1300	24
Dibromochloromethane		5 U	5 U	5 U	120 U	50 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	120 U	50 U	5 U
Benzene		5 U	5 U	5 U	120 U	50 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	120 U	50 U	5 U
Bromoform		5 U	5 U	5 U	120 U	50 U	5 U
4-Methyl-2-pentanone		10 U	10 U	10 U	250 U	100 U	10 U
2-Hexanone		10 U	10 U	10 U	250 U	100 U	10 U
Tetrachloroethene		5 U	5 U	5 U	81 J	38 J	6
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	120 U	50 U	5 U

006

\*= Outside of EPA CLP QC limits.

Cust ID:	RFW-2B	RFW-7	RFW-1A	EW-4	EW-5	RFW-9
RFW#:	005	006	007	008	009	010
Toluene	5 U	5 U	5 U	120 U	50 U	5 U
Chlorobenzene	5 U	5 U	5 U	120 U	50 U	5 U
Ethylbenzene	5 U	5 U	5 U	120 U	50 U	5 U
Styrene	5 U	5 U	5 U	120 U	50 U	5 U
Xylene (total)	5 U	5 U	5 U	120 U	50 U	5 U

200

\*= Outside of EPA CLP QC limits.

Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 15:00

RFW Batch Number: 9708L898

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 3a

Sample Information	Cust ID:	EW-6	EW-7	EW-3	LEISTER-1	LEISTER-DAIR Y	LEISTER-2
RFW#:	011	012	013	014	015	016	
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
D.F.:	1.00	1.00	10.0	1.00	1.00	1.00	
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
Surrogate	Toluene-d8	104 %	105 %	100 %	101 %	99 %	101 %
Recovery	Bromofluorobenzene	103 %	104 %	94 %	99 %	96 %	97 %
	1,2-Dichloroethane-d4	106 %	108 %	105 %	104 %	103 %	100 %
===== fl ===== fl ===== fl ===== fl ===== fl ===== fl							
Chloromethane		10 U	10 U	100 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	100 U	10 U	10 U	10 U
Vinyl Chloride		10 U	10 U	100 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	100 U	10 U	10 U	10 U
Methylene Chloride		10 B	5 U	17 J	2 J	6	2 BJ
Acetone		10 U	10 U	100 U	10 U	10 U	10 U
Carbon Disulfide		5 U	5 U	50 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	50 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	50 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	11	50 U	5 U	5 U	5 U
Chloroform		5 U	5 U	50 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	50 U	5 U	5 U	5 U
2-Butanone		10 U	10 U	100 U	10 U	10 U	10 U
1,1,1-Trichloroethane		5 U	5 U	50 U	5 J	5 U	5 U
Carbon Tetrachloride		5 U	5 U	50 U	5 U	5 U	5 U
Vinyl Acetate		10 U	10 U	100 U	10 U	10 U	10 U
Bromodichloromethane		5 U	5 U	50 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	50 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	50 U	5 U	5 U	5 U
Trichloroethene		12	16	840	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	50 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	50 U	5 U	5 U	5 U
Benzene		5 U	5 U	50 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	50 U	5 U	5 U	5 U
Bromoform		5 U	5 U	50 U	5 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	100 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	100 U	10 U	10 U	10 U
Tetrachloroethene		58	40	20 J	5 U	3 J	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	50 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

800

Cust ID:	EW-6	EW-7	EW-3	LEISTER-1	LEISTER-DAIR Y	LEISTER-2
RFW#:	011	012	013	014	015	016
Toluene	5 U	5 U	50 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	50 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	50 U	5 U	5 U	5 U
Styrene	5 U	5 U	50 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	50 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

600

Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 15:00

RFW Batch Number: 9708L898

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 4a

Sample Information	Cust ID:	RFW-11B	RFW-10	RFW-1B	RFW-12B	VBLKUH	VBLKUH BS
	RFW#:	017	018	019	020	97LVK177-MB1	97LVK177-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	10.0	1.00	25.0	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	Toluene-d8	94 %	95 %	97 %	102 %	97 %	105 %
Recovery	Bromofluorobenzene	90 %	93 %	96 %	100 %	97 %	106 %
	1,2-Dichloroethane-d4	98 %	99 %	98 %	104 %	108 %	112 %
		-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----
	Chloromethane	10 U	100 U	10 U	250 U	10 U	10 U
	Bromomethane	10 U	100 U	10 U	250 U	10 U	10 U
	Vinyl Chloride	10 U	100 U	10 U	250 U	10 U	10 U
	Chloroethane	10 U	100 U	10 U	250 U	10 U	10 U
	Methylene Chloride	5 U	49 BJ	2 J	69 BJ	1 J	4 JB
	Acetone	10 U	100 U	10 U	250 U	10 U	10 U
	Carbon Disulfide	5 U	50 U	5 U	120 U	5 U	5 U
	1,1-Dichloroethene	5 U	50 U	5 U	120 U	5 U	101 %
	1,1-Dichloroethane	5 U	50 U	5 U	120 U	5 U	5 U
	1,2-Dichloroethene (total)	5 U	50 U	5 U	120 U	5 U	5 U
	Chloroform	5 U	50 U	5 U	120 U	5 U	5 U
	1,2-Dichloroethane	5 U	50 U	5 U	120 U	5 U	5 U
	2-Butanone	10 U	100 U	10 U	250 U	10 U	10 U
	1,1,1-Trichloroethane	5 U	50 U	5 U	120 U	5 U	5 U
	Carbon Tetrachloride	5 U	50 U	5 U	120 U	5 U	5 U
	Vinyl Acetate	10 U	100 U	10 U	250 U	10 U	10 U
	Bromodichloromethane	5 U	50 U	5 U	120 U	5 U	5 U
	1,2-Dichloropropane	5 U	50 U	5 U	120 U	5 U	5 U
	cis-1,3-Dichloropropene	5 U	50 U	5 U	120 U	5 U	5 U
	Trichloroethene	22	1500	5 U	2600	5 U	95 %
	Dibromochloromethane	5 U	50 U	5 U	120 U	5 U	5 U
	1,1,2-Trichloroethane	5 U	50 U	5 U	120 U	5 U	5 U
	Benzene	5 U	50 U	5 U	120 U	5 U	100 %
	Trans-1,3-Dichloropropene	5 U	50 U	5 U	120 U	5 U	5 U
	Bromoform	5 U	50 U	5 U	120 U	5 U	5 U
	4-Methyl-2-pentanone	10 U	100 U	10 U	250 U	10 U	10 U
	2-Hexanone	10 U	100 U	10 U	250 U	10 U	10 U
	Tetrachloroethene	5 U	46 J	5 U	82 J	5 U	5 U
	1,1,2,2-Tetrachloroethane	5 U	50 U	5 U	120 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

C10

Cust ID: RFW-11B RFW-10 RFW-1B RFW-12B VBLKUH VBLKUH BS

RFW#: 017 018 019 020 97LVK177-MB1 97LVK177-MB1

	017	018	019	020	97LVK177-MB1	97LVK177-MB1
Toluene	5 U	50 U	5 U	120 U	5 U	100 %
Chlorobenzene	5 U	50 U	5 U	120 U	5 U	96 %
Ethylbenzene	5 U	50 U	5 U	120 U	5 U	5 U
Styrene	5 U	50 U	5 U	120 U	5 U	5 U
Xylene (total)	5 U	50 U	5 U	120 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

011

Recre LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 15:00

RFW Batch Number: 9708L898

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 5a

Sample Information	Cust ID: VBLKSC	VBLKSC	VBLKSN	VBLKSN BS
RFW#:	97LVK180-MB1	97LVK181-MB1	97LVK182-MB1	97LVK182-MB1
Matrix:	WATER	WATER	WATER	WATER
D.F.:	1.00	1.00	1.00	1.00
Units:	UG/L	UG/L	UG/L	UG/L

Surrogate	Recovery	Toluene-d8	Bromofluorobenzene	1,2-Dichloroethane-d4	106 %	103 %	93 %	97 %
Chloromethane	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U
Methylene Chloride	5	U	2	J	5	U	5	U
Acetone	10	U	10	U	10	U	10	U
Carbon Disulfide	5	U	5	U	5	U	5	U
1,1-Dichloroethene	5	U	5	U	5	U	98	%
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U
Chloroform	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
2-Butanone	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
Carbon Tetrachloride	5	U	5	U	5	U	5	U
Vinyl Acetate	10	U	10	U	10	U	10	U
Bromodichloromethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethene	5	U	5	U	5	U	88	%
Dibromochloromethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
Benzene	5	U	5	U	5	U	97	%
Trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U
Tetrachloroethene	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U

\*= Outside of EPA CLP QC limits.

012

Cust ID: VBLKSC VBLKSZ VBLKSN VBLKSN BS

RFW#: 97LVK180-MB1 97LVK181-MB1 97LVK182-MB1 97LVK182-MB1

	97LVK180-MB1	97LVK181-MB1	97LVK182-MB1	97LVK182-MB1	
Toluene	5 U	5 U	5 U	98	%
Chlorobenzene	5 U	5 U	5 U	96	%
Ethylbenzene	5 U	5 U	5 U	5	U
Styrene	5 U	5 U	5 U	5	U
Xylene (total)	5 U	5 U	5 U	5	U

\*= Outside of EPA CLP QC limits.

013



1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-18

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082215

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA. SAMPLE NO.

RFW-19

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082506

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/25/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
 VOLATILE ORGANICS ANALYSIS SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-17

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082219

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	23.518	20	J

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-2A

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082507

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/25/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-2B

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082605

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
 VOLATILE ORGANICS ANALYSIS SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-7

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-006

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082509

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/25/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
 VOLATILE ORGANICS ANALYSIS SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-1A

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082510

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/25/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-4

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082607

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/26/97

Column: (pack/cap) CAP

Dilution Factor: 25.0

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				



1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-5

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-009

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082608

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 10.0

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-9

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082708

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/27/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Recra.LabNet Contract: 02501004001

EW-6

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-011

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082606

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-7

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082515

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/25/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.589	8	J

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-3

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-013

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082516

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/25/97

Column: (pack/cap) CAP Dilution Factor: 10.0

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LEISTER-1

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082517

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/25/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LEISTER-DAIRY

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082518

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/25/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LEISTER-2

Lab Name: Recra.LabNet Contract: 02501004001  
Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) WATER Lab Sample ID: 9708L898-016  
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082610  
Level: (low/med) LOW Date Received: 08/15/97  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97  
Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.557	30	J



1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-11B

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082611

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-10

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082612

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/26/97

Column: (pack/cap) CAP

Dilution Factor: 10.0

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-1B

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L898-019

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082613

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-12B

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L898-020

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082614

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/26/97

Column: (pack/cap) CAP

Dilution Factor: 25.0

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKUH

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 97LVK177-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082206

Level: (low/med) LOW Date Received: 08/22/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSC

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 97LVK180-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082503

Level: (low/med) LOW

Date Received: 08/25/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/25/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSZ

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 97LVK181-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: k082603

Level: (low/med) LOW Date Received: 08/26/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSN

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 97LVK182-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: k082703

Level: (low/med) LOW

Date Received: 08/27/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/27/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				



Recra LabNet - Lionville Laboratory  
 VOA ANALYTICAL DATA PACKAGE FOR  
 BLACK&DECKER-HAMPSTEAD

DATE RECEIVED: 08/15/97

RFW LOT # :9708L898

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
RFW-18	001	W	97LVK177	08/13/97	N/A	08/22/97
RFW-18	001 MS	W	97LVK177	08/13/97	N/A	08/22/97
RFW-18	001 MSD	W	97LVK177	08/13/97	N/A	08/22/97
RFW-19	002	W	97LVK180	08/13/97	N/A	08/25/97
RFW-17	003	W	97LVK177	08/13/97	N/A	08/22/97
RFW-2A	004	W	97LVK180	08/13/97	N/A	08/25/97
RFW-2B	005	W	97LVK181	08/13/97	N/A	08/26/97
RFW-7	006	W	97LVK180	08/13/97	N/A	08/25/97
RFW-1A	007	W	97LVK180	08/13/97	N/A	08/25/97
EW-4	008	W	97LVK181	08/13/97	N/A	08/26/97
EW-5	009	W	97LVK181	08/13/97	N/A	08/26/97
RFW-9	010	W	97LVK182	08/13/97	N/A	08/27/97
EW-6	011	W	97LVK181	08/13/97	N/A	08/26/97
EW-7	012	W	97LVK180	08/13/97	N/A	08/25/97
EW-3	013	W	97LVK180	08/13/97	N/A	08/25/97
LEISTER-1	014	W	97LVK180	08/13/97	N/A	08/25/97
LEISTER-DAIRY	015	W	97LVK180	08/13/97	N/A	08/25/97
LEISTER-2	016	W	97LVK181	08/13/97	N/A	08/26/97
RFW-11B	017	W	97LVK181	08/14/97	N/A	08/26/97
RFW-10	018	W	97LVK181	08/14/97	N/A	08/26/97
RFW-1B	019	W	97LVK181	08/14/97	N/A	08/26/97
RFW-12B	020	W	97LVK181	08/14/97	N/A	08/26/97

LAB QC:

VBLKUH	MB1	W	97LVK177	N/A	N/A	08/22/97
VBLKUH	MB1 BS	W	97LVK177	N/A	N/A	08/22/97
VBLKSC	MB1	W	97LVK180	N/A	N/A	08/25/97
VBLKSZ	MB1	W	97LVK181	N/A	N/A	08/26/97
VBLKSN	MB1	W	97LVK182	N/A	N/A	08/27/97
VBLKSN	MB1 BS	W	97LVK182	N/A	N/A	08/27/97

9709L894

# Custody Transfer Record/Lab Work Request



4  
5. DUAK  
5 Cms  
VOK

Client <b>Black Veeder - HAMPSHIRE</b>	Refrigerator #	Liquid	2/100
Est. Final Proj. Sampling Date <b>14 AUG 97</b>	#/Type Container	Solid	
Project # <b>02501-004-001-0200-00</b>	Volume	Liquid	40ml
Project Contact/Phone # <b>CHRIS HARRIS/701-7203</b>	Preservatives	Solid	
RECRA Project Manager <b>MIKE YORNG</b>			
QC <b>SW 846 Del STD TAT STD - 28 DAY</b>			

Date Rec'd **8-15-97** Date Due **9-5-97**  
 Account # **BLADDOCH HAMP**

ANALYSES REQUESTED	ORGANIC					INORG	
	VOA	BNA	Pes/PCB	Herb	Metal	CN	

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	RECRA LabNet Use Only													
			MS	MSD																	
	001	RFW-18			W	8/13/97	0900	✓													
	002	RFW-19					0925	✓													
	003	RFW-17					0950	✓													
	004	RFW-2A					1010	✓													
	005	RFW-2B					1038	✓													
	006	RFW-7					1100	✓													
	007	RFW-1A					1135	✓													
	008	EW-4					1140	✓													
	009	EW-5					1150	✓													
	010	RFW-9					1510	✓													

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 7.0°C

DATE/REVISIONS:  
 1. **TCL UOH 8260**  
 2. **DATE DUE CORRECTED ON**  
 3. **COC per UNIT REVIEW PROVISION**

RECRA LabNet Use Only	
Samples were: 1) Shipped ___ or Hand Delivered <input checked="" type="checkbox"/> Airbill # _____	COC Tape was: 1) Present on Outer Package Y or N <input checked="" type="checkbox"/> 2) Unbroken on Outer Package Y or N <input checked="" type="checkbox"/> 3) Present on Sample Y or N <input checked="" type="checkbox"/>
2) Ambient or Chilled <input checked="" type="checkbox"/> 3) Received in Good Condition <input checked="" type="checkbox"/> Y or N	4) Unbroken on Sample Y or N <input checked="" type="checkbox"/> COC Record Present Upon Sample Rec'l Y or N <input checked="" type="checkbox"/>
4) Labels Indicate Properly Preserved <input checked="" type="checkbox"/> Y or N	5) Received Within Holding Times <input checked="" type="checkbox"/> Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	9/5/97	1200				

Discrepancies Between Samples Labels and COC Record? Y or N   
 NOTES:

039

RECRA LabNet Use Only  
 9708289B

# Custody Transfer Record/Lab Work Request



Client ~~Coast Hill~~ **Black & Decker - HAMPSHIRE**  
 Est. Final Proj. Sampling Date **14 AUG 97**  
 Project # **02501-004-001-0200-00**  
 Project Contact/Phone # **Chris Harris / 701-7203**  
 RECRA Project Manager **Mike Young**  
 Refrigerator # \_\_\_\_\_  
 #/Type Container: Liquid **2KE**, Solid \_\_\_\_\_  
 Volume: Liquid **40ml**, Solid \_\_\_\_\_  
 Preservatives **HCl**  
 Del. **DATE DAY**  
 Date Rec'd \_\_\_\_\_  
 Account # \_\_\_\_\_

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum DL - Drum L - EP/TCLP WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	ORGANIC					INORG	
			MS	MSD				VOA	BNA	Pes/PCB	Herb	Metal	CN	
			RECRA LabNet Use Only											
	011	EW-6			W	8/14/97	1440	✓						
	012	EW-7					1430	✓						
	013	EW-3					1630	✓						
	014	LEISTER-1					1710	✓						
	015	LEISTER-DAIRY					1715	✓						
	016	LEISTER-2					1725	✓						
	017	RFW-11B				8/14/97	0835	✓						
	018	RFW-10					0900	✓						
	019	RFW-1B					0920	✓						
	020	RFW-12B					0930	✓						

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

RECRA LabNet Use Only

Samples were:  
 1) Shipped  or Hand Delivered  Airbill # \_\_\_\_\_  
 2) Ambient or Filled \_\_\_\_\_  
 3) Received in Good Condition  or N  
 4) Labels Indicate Properly Preserved  Y or N  
 5) Received Within Holding Times  Y or N

COC Tape was:  
 1) Present on Outer Package  Y or N  
 2) Unbroken on Outer Package  Y or N  
 3) Present on Sample  Y or N  
 4) Unbroken on Sample  Y or N  
 COC Record Present Upon Sample Rec'l  Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	8/15/97	1200				

Discrepancies Between Samples Labels and COC Record?  Y or N  
 NOTES:

040

410



**Recra LabNet Philadelphia  
Analytical Report**

**Client :** BLACK & DECKER-HAMPSTEAD  
**RFW# :** 9708L899

**W.O. #:** 02501-004-001-0200-00  
**Date Received:** 08-15-97

**GC/MS VOLATILE**

The set of samples consisted of fifteen (15) water samples collected on 08-13,14-97.

The samples were analyzed according to criteria set forth in SW 846 Method 8260A for TCL Volatile target compounds on 08-22,26,27-97.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The required holding time for analysis was met.
3. Non-target compounds were detected in these samples.
4. The following samples required dilution because they contained high levels of target compounds:

<u>Sample ID</u>	<u>Dilution Factor</u>
EW-8	2
RFW-4A	2
EW-2	25
EW-9	5

5. All surrogate recoveries were within EPA QC limits.
6. All matrix spike recoveries were within EPA QC limits.
7. All blank spike recoveries were within EPA QC limits.
8. The method blanks contained the common contaminants Methylene Chloride and Acetone at levels less than 3x the CRQL and the target compounds Chloromethane and Bromomethane at levels less than the CRQL.

FOR

*J. Michael Taylor*  
J. Michael Taylor

Vice President and Laboratory Manager  
Lionville Analytical Laboratory

9-22-97

Date

mmz\voa\08-899v.cn

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 32 pages.

## GLOSSARY OF VOA DATA

### DATA QUALIFIERS

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.



## GLOSSARY OF VOA DATA

### ABBREVIATIONS

- BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD = Indicates blank spike duplicate.
- MS = Indicates matrix spike.
- MSD = Indicates matrix spike duplicate.
- DL = Suffix added to sample number to indicate that results are from a diluted analysis.
- NA = Not Applicable.
- DF = Dilution Factor.
- NR = Not Required.
- SP, Z = Indicates Spiked Compound.



Recre LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 10:43

RFW Batch Number: 9708L899

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 1a

Sample Information	Cust ID:	RFW-13	RFW-6	EW-8	RFW-4A	RFW-4A	RFW-4B
RFW#:	001	002	003	004	004 DL	005	
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
D.F.:	1.00	1.00	2.00	1.00	2.00	1.00	
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
Toluene-d8	97 %	98 %	102 %	99 %	104 %	99 %	
Surrogate Bromofluorobenzene	99 %	98 %	93 %	100 %	94 %	91 %	
Recovery 1,2-Dichloroethane-d4	104 %	105 %	100 %	104 %	104 %	97 %	
	-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----
Chloromethane	10 U	10 U	20 U	10 U	20 U	10 U	
Bromomethane	10 U	10 U	20 U	10 U	20 U	10 U	
Vinyl Chloride	10 U	10 U	20 U	10 U	20 U	10 U	
Chloroethane	10 U	10 U	20 U	10 U	20 U	10 U	
Methylene Chloride	3 BJ	2 BJ	8 BJ	3 BJ	6 BJD	8 B	
Acetone	5 BJ	12 B	8 BJ	10 U	7 BJD	12 B	
Carbon Disulfide	5 U	5 U	10 U	5 U	10 U	5 U	
1,1-Dichloroethene	1 J	5 U	10 U	5 U	10 U	5 U	
1,1-Dichloroethane	5 U	5 U	10 U	5 U	10 U	5 U	
1,2-Dichloroethene (total)	5 U	4 J	30	5 J	4 JD	7	
Chloroform	5 U	5 U	10 U	2 J	10 U	2 J	
1,2-Dichloroethane	5 U	5 U	10 U	5 U	10 U	5 U	
2-Butanone	10 U	10 U	20 U	10 U	20 U	3 J	
1,1,1-Trichloroethane	5 U	5 U	10 U	5 U	10 U	5 U	
Carbon Tetrachloride	5 U	5 U	10 U	5 U	10 U	5 U	
Vinyl Acetate	10 U	10 U	20 U	10 U	20 U	10 U	
Bromodichloromethane	5 U	5 U	10 U	5 U	10 U	5 U	
1,2-Dichloropropane	5 U	5 U	10 U	5 U	10 U	5 U	
cis-1,3-Dichloropropene	5 U	5 U	10 U	5 U	10 U	5 U	
Trichloroethene	8	28	16	160	160 D	47	
Dibromochloromethane	5 U	5 U	10 U	5 U	10 U	5 U	
1,1,2-Trichloroethane	5 U	5 U	10 U	5 U	10 U	5 U	
Benzene	5 U	5 U	10 U	5 U	10 U	5 U	
Trans-1,3-Dichloropropene	5 U	5 U	10 U	5 U	10 U	5 U	
Bromoform	5 U	5 U	10 U	5 U	10 U	5 U	
4-Methyl-2-pentanone	10 U	10 U	20 U	10 U	20 U	10 U	
2-Hexanone	10 U	10 U	20 U	10 U	20 U	10 U	
Tetrachloroethene	54	24	200	210 E	220 D	97	
1,1,2,2-Tetrachloroethane	5 U	5 U	10 U	5 U	10 U	5 U	

004

\*= Outside of EPA CLP QC limits.

Cust ID:	RFW-13	RFW-6	EW-8	RFW-4A	RFW-4A	RFW-4B
RFW#:	001	002	003	004	004 DL	005
Toluene	5 U	5 U	10 U	5 U	10 U	5 U
Chlorobenzene	5 U	5 U	10 U	5 U	10 U	5 U
Ethylbenzene	5 U	5 U	10 U	5 U	10 U	5 U
Styrene	5 U	5 U	10 U	5 U	10 U	5 U
Xylene (total)	5 U	5 U	10 U	5 U	10 U	5 U

\*= Outside of EPA CLP QC limits.

005



Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 10:43

RFW Batch Number: 9708L899

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 2a

Sample Information	Cust ID:	RFW-4B	RFW-4B	RFW-3B	RFW-4B DUP	RFW-11A	EW-2
Sample Information	RFW#:	005 MS	005 MSD	006	007	008	009
Matrix:	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
D.F.:	D.F.:	1.00	1.00	1.00	1.00	1.00	25.0
Units:	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Toluene-d8		101 %	99 %	98 %	100 %	102 %	100 %
Surrogate Bromofluorobenzene		93 %	90 %	101 %	90 %	98 %	100 %
Recovery 1,2-Dichloroethane-d4		102 %	98 %	109 %	100 %	114 %	99 %
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Chloromethane		10 U	10 U	10 U	10 U	2 BJ	250 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	250 U
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	250 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	250 U
Methylene Chloride		6 B	1 BJ	4 BJ	1 BJ	3 BJ	190 B
Acetone		11 B	10 BJ	7 BJ	8 BJ	10 U	110 JB
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	120 U
1,1-Dichloroethene		96 %	100 %	1 J	5 U	5 U	120 U
1,1-Dichloroethane		5 U	5 U	2 J	5 U	5 U	120 U
1,2-Dichloroethene (total)		7	6	49	7	5 U	120 U
Chloroform		2 J	1 J	5 U	1 J	5 U	120 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	120 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	250 U
1,1,1-Trichloroethane		5 U	5 U	3 J	5 U	5 U	120 U
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	120 U
Vinyl Acetate		10 U	10 U	10 U	10 U	10 U	250 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	120 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	120 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	120 U
Trichloroethene		105 %	102 %	26	44	93	2600
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	120 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	120 U
Benzene		101 %	105 %	5 U	5 U	5 U	120 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	120 U
Bromoform		5 U	5 U	5 U	5 U	5 U	120 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	250 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	250 U
Tetrachloroethene		98	93	49	92	2 J	76 J
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	120 U

\*= Outside of EPA CLP QC limits.

006  
00

	Cust ID:	RFW-4B	RFW-4B	RFW-3B	RFW-4B DUP	RFW-11A	EW-2
	RFW#:	005 MS	005 MSD	006	007	008	009
Toluene		102 %	104 %	5 U	5 U	5 U	120 U
Chlorobenzene		99 %	99 %	5 U	5 U	5 U	120 U
Ethylbenzene		5 U	5 U	5 U	5 U	5 U	120 U
Styrene		5 U	5 U	5 U	5 U	5 U	120 U
Xylene (total)		5 U	5 U	5 U	5 U	5 U	120 U

200

\*= Outside of EPA CLP QC limits.

Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List

Report Date: 09/18/97 10:43

RFW Batch Number: 9708L899

Client: BLACK&DECKER-HAMPSTEAD

Work Order: 02501004001 Page: 3a

Cust ID:		EW-9	EW-10	EW-10 DUP	HAMP-22	FIELD BLANK	TRIP BLANK
Sample Information	RFW#:	010	011	012	013	014	015
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	5.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	Toluene-d8	97 %	98 %	97 %	95 %	103 %	99 %
Recovery	Bromofluorobenzene	93 %	96 %	101 %	105 %	100 %	94 %
	1,2-Dichloroethane-d4	98 %	113 %	111 %	109 %	107 %	100 %
		-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----	-----fl-----
	Chloromethane	50 U	10 U	10 U	10 U	10 U	10 U
	Bromomethane	50 U	10 U	10 U	10 U	10 U	10 U
	Vinyl Chloride	50 U	10 U	10 U	10 U	10 U	10 U
	Chloroethane	50 U	10 U	10 U	10 U	10 U	10 U
	Methylene Chloride	32 B	5 BJ	5 BJ	4 BJ	4 BJ	7 B
	Acetone	14 JB	10 U	8 BJ	6 BJ	6 BJ	10 BJ
	Carbon Disulfide	25 U	5 U	5 U	5 U	5 U	5 U
	1,1-Dichloroethene	25 U	5 U	5 U	5 U	5 U	5 U
	1,1-Dichloroethane	25 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloroethene (total)	9 J	5 U	5 U	5 U	5 U	5 U
	Chloroform	25 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloroethane	25 U	5 U	5 U	5 U	5 U	5 U
	2-Butanone	50 U	10 U	10 U	10 U	10 U	10 U
	1,1,1-Trichloroethane	25 U	5 U	5 U	5 U	5 U	5 U
	Carbon Tetrachloride	25 U	5 U	5 U	5 U	5 U	5 U
	Vinyl Acetate	50 U	10 U	10 U	10 U	10 U	10 U
	Bromodichloromethane	25 U	5 U	5 U	5 U	5 U	5 U
	1,2-Dichloropropane	25 U	5 U	5 U	5 U	5 U	5 U
	cis-1,3-Dichloropropene	25 U	5 U	5 U	5 U	5 U	5 U
	Trichloroethene	11 J	2 J	2 J	5 U	5 U	5 U
	Dibromochloromethane	25 U	5 U	5 U	5 U	5 U	5 U
	1,1,2-Trichloroethane	25 U	5 U	5 U	5 U	5 U	5 U
	Benzene	25 U	5 U	5 U	5 U	5 U	5 U
	Trans-1,3-Dichloropropene	25 U	5 U	5 U	5 U	5 U	5 U
	Bromoform	25 U	5 U	5 U	5 U	5 U	5 U
	4-Methyl-2-pentanone	50 U	10 U	10 U	10 U	10 U	10 U
	2-Hexanone	50 U	10 U	10 U	10 U	10 U	10 U
	Tetrachloroethene	970	140	140	5 U	5 U	5 U
	1,1,2,2-Tetrachloroethane	25 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

008

Cust ID:            EW-9            EW-10            EW-10 DUP            HAMP-22            FIELD BLANK            TRIP BLANK

RFW#:                010                011                012                013                014                015

Toluene	25 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	25 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	25 U	5 U	5 U	5 U	5 U	5 U
Styrene	25 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	25 U	5 U	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

009



Cust ID: VBLKVM VBLKTX VBLKTX BS VBLKTY

RFW#: 97LVC166-MB1 97LVG172-MB1 97LVG172-MB1 97LVG173-MB1

Toluene	5 U	5 U	105 %	5 U
Chlorobenzene	5 U	5 U	105 %	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U

\*= Outside of EPA CLP QC limits.

011

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Recra.LabNet Contract: 02501004001

RFW-13

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: c082220

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-6

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082219

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.336	5	J



1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-8

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: g082614

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 2.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-4A

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082218

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-4B

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-005

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: g082610

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.346	20	J

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-3B

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082217

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
 VOLATILE ORGANICS ANALYSIS SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-4B DUP

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-007

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: g082613

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RFW-11A

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082216

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 3

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SILOXANE	16.807	6	J
2.	SILOXANE	20.940	40	J
3.	UNKNOWN	24.199	10	J

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-2

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-009

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: q082705

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/27/97

Column: (pack/cap) CAP Dilution Factor: 25.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-9

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-010

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: q082708

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/27/97

Column: (pack/cap) CAP

Dilution Factor: 5.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				



1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-10

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-011

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: c082215

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EW-10 DUP

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra

Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-012

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082214

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Recra.LabNet Contract: 02501004001

HAMP-22

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-013

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: c082213

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FIELD BLANK

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 9708L899-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082212

Level: (low/med) LOW

Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1:00

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 9708L899-015

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: c082211

Level: (low/med) LOW Date Received: 08/15/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/22/97

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKVM

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 97LVC166-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: c082210

Level: (low/med) LOW

Date Received: 08/22/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/22/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTX

Lab Name: Recra.LabNet Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 97LVG172-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: g082604

Level: (low/med) LOW Date Received: 08/26/97

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 08/26/97

Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1E  
VOLATILE ORGANICS ANALYSIS SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTY

Lab Name: Recra.LabNet

Contract: 02501004001

Lab Code: Recra Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER

Lab Sample ID: 97LVG173-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: q082704

Level: (low/med) LOW

Date Received: 08/27/97

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/27/97

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				



Recra LabNet - Lionville Laboratory  
 VOA ANALYTICAL DATA PACKAGE FOR  
 BLACK&DECKER-HAMPSTEAD

DATE RECEIVED: 08/15/97

RFW LOT # :9708L899

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
RFW-13	001	W	97LVC166	08/14/97	N/A	08/22/97
RFW-6	002	W	97LVC166	08/14/97	N/A	08/22/97
EW-8	003	W	97LVG172	08/14/97	N/A	08/26/97
RFW-4A	004	W	97LVC166	08/14/97	N/A	08/22/97
RFW-4A	004	D1	W 97LVG172	08/14/97	N/A	08/26/97
RFW-4B	005	W	97LVG172	08/14/97	N/A	08/26/97
RFW-4B	005	MS	W 97LVG172	08/14/97	N/A	08/26/97
RFW-4B	005	MSD	W 97LVG172	08/14/97	N/A	08/26/97
RFW-3B	006	W	97LVC166	08/14/97	N/A	08/22/97
RFW-4B DUP	007	W	97LVG172	08/14/97	N/A	08/26/97
RFW-11A	008	W	97LVC166	08/14/97	N/A	08/22/97
EW-2	009	W	97LVG173	08/14/97	N/A	08/27/97
EW-9	010	W	97LVG173	08/14/97	N/A	08/27/97
EW-10	011	W	97LVC166	08/14/97	N/A	08/22/97
EW-10 DUP	012	W	97LVC166	08/14/97	N/A	08/22/97
HAMP-22	013	W	97LVC166	08/14/97	N/A	08/22/97
FIELD BLANK	014	W	97LVC166	08/14/97	N/A	08/22/97
TRIP BLANK	015	W	97LVC166	08/13/97	N/A	08/22/97

LAB QC:

VBLKVM	MB1	W	97LVC166	N/A	N/A	08/22/97
VBLKTX	MB1	W	97LVG172	N/A	N/A	08/26/97
VBLKTX	MB1 BS	W	97LVG172	N/A	N/A	08/26/97
VBLKTY	MB1	W	97LVG173	N/A	N/A	08/27/97





RECRA LabNet Use Only

9708L899

# Custody Transfer Record/Lab Work Request

Client <u>Black &amp; Decker - HAMPSHIRE</u>	Refrigerator #	
Est. Final Proj. Sampling Date <u>14-Aug-97</u>	#/Type Container	Liquid <u>2/10</u>
Project # <u>02501-004-001-0200-00</u>		Solid
Project Contact/Phone # <u>CHRIS HARRIS / 610-701-7203</u>	Volume	Liquid <u>40ml</u>
RECRA Project Manager <u>MIKE YOUNG</u>		Solid
QC <u>DATE: 5/22/97</u>	Preservatives	<u>Hcl</u>
Date Rec'd	ANALYSES REQUESTED	
Account #		

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	ORGANIC					INORG				
			MS	MSD				VOA	BNA	Pes/PCB	Herb	Metal	CN				
														RECRA LabNet Use Only			
	011	EW-10			W	8/14/97	1250	✓									
	012	EW-10 DUP.					1250	✓									
	013	HAMP-22					1005	✓									
	014	FIELD BLANK					0800	✓									
	015	STRIP BLANK				8/13/97	-	✓									

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

- DATE/REVISIONS:
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

RECRA LabNet Use Only

Samples were:	COC Tape was:
1) Shipped <input type="checkbox"/> or Hand Delivered <input type="checkbox"/> Airbill # _____	1) Present on Outer Package Y or N
2) Ambient or Onilled	2) Unbroken on Outer Package Y or N
3) Received in Good Condition Y or N	3) Present on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	4) Unbroken on Sample Y or N
5) Received Within Holding Times Y or N	COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	8/15/97	1200				

Discrepancies Between Samples Lables and COC Record? Y or N

NOTES:

8/15/97