

**Quarterly Groundwater Monitoring Report**

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

Hampstead, Maryland

April 2014

Prepared by

**WESTON SOLUTIONS, INC.**

West Chester, Pennsylvania 19380-1499

---

## TABLE OF CONTENTS

---

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

---

## LIST OF APPENDICES

---

APPENDIX A - GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS

APPENDIX B - DISCHARGE MONITORING REPORTS

APPENDIX C - GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS

APPENDIX D - GROUNDWATER ANALYTICAL DATA PACKAGE

---

## LIST OF TABLES

---

<b>Table</b>	<b>Page</b>
Table 2-1 Treatment System Pumping Records – 1st Quarter 2014.....	2-2
Table 2-2 Groundwater Elevation Data – 1st Quarter 2014 .....	2-3
Table 2-3 Effluent Characteristics Summary – 1st Quarter 2014 .....	2-4
Table 2-4 Summary of Groundwater Analytical Results - February 2014.....	2-5
Table 3-1 Treatment System Maintenance Activities – 1st Quarter 2014.....	3-2

## 1. INTRODUCTION

This Groundwater Monitoring Report has been prepared to meet the requirements of Condition IV.G of the Administrative Consent Order between the State of Maryland Department of the Environment (MDE) and Black & Decker (U.S.) Inc. (April 1995) (Consent Order). Specifically, Condition IV.G calls for preparation of a Groundwater Monitoring Report containing the following information for each reporting period:

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

This document is one of several which are being prepared in response to the Consent Order; each of these documents are to be submitted to the MDE in accordance with the schedule outlined in the Consent Order. This document will become part of the Administrative Record for the site, which is maintained at the Hampstead Public Library.

## **2. SITE CHARACTERISTICS**

### **2.1 HYDRAULIC PROPERTIES**

In accordance with the Consent Order and the Water Appropriation Permit issued to the Black and Decker (U.S.) Inc. Hampstead, Maryland, facility, the following pumping and water level information is included for the period of January through March 2014.

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

Monthly water levels for wells included in the water level monitoring plan are presented in Table 2-2. For the reporting period of January through March 2014, the extraction wells were pumping at an average combined rate of approximately 166 gallons per minute (gpm).

### **2.2 EFFLUENT CHARACTERISTICS**

Effluent characteristics of the NPDES discharge points are recorded monthly on Discharge Monitoring Reports (DMRs) and are submitted to MDE, Water Management Administration, on a quarterly basis. A summary of the sample results from the DMRs is presented in Table 2-3. DMRs for the period of January through March 2014 are included in Appendix B.

### **2.3 GROUNDWATER QUALITY DATA**

For the reporting period of January through March 2014, approximately 10.16 pounds of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total VOCs removed from the groundwater were comprised primarily of trichloroethene (TCE) (77.7%) and tetrachloroethene (PCE) (22.3%) Analytical results of the groundwater collected from the air stripper for the period of January through March 2014 are included in Appendix C.

A summary of the analytical results from the first quarter (February 2014) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete

**Table 2-1**  
**Treatment System Pumping Records - 1st Quarter 2014**  
**Black & Decker**  
**Hampstead, Maryland**

<b>Date</b>	<b>Water Pumped (gallons)</b>
<b>January 2014</b>	5,895,800
<b>February 2014</b>	5,316,166
<b>March 2014</b>	6,772,689

Table 2-2  
Groundwater Elevation Data - 1st Quarter 2014  
Black & Decker  
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	1/21/2014		2/25/2014		3/20/2014	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	92.47	756.74	92.38	756.83	92.36	756.85
EW-3	846.64	118	85.50	761.14	85.46	761.18	85.50	761.14
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	89.53	774.64	89.49	774.68	89.27	774.90
EW-6	831.98	115	103.00	728.98	103.00	728.98	103.00	728.98
EW-7	818.38	78	73.50	744.88	73.50	744.88	73.50	744.88
EW-8	811.13	98	96.00	715.13	96.00	715.13	96.00	715.13
EW-9	811.35	141	103.00	708.35	103.00	708.35	103.00	708.35
EW-10	807.74	INA	54.17	753.57	20.49*	807.74	52.71	755.03
RFW-1A	864.37	78	53.47	810.90	53.28	811.09	53.26	811.11
RFW-1B	864.23	200	53.49	810.74	53.31	810.92	53.28	810.95
RFW-2A	857.41	35	17.34	840.07	11.94	845.47	12.01	845.40
RFW-2B	857.73	75	17.96	839.77	12.58	845.15	12.60	845.13
RFW-3B	839.21	153	36.21	803.00	32.08	807.13	33.13	806.08
RFW-4A	830.37	62	38.48	791.89	35.63	794.74	35.60	794.77
RFW-4B	830.37	120	38.40	791.97	35.48	794.89	35.49	794.88
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.89	780.15	2.86	782.18	3.71	781.33
RFW-7	805.14	29	7.14	798.00	6.98	798.16	7.01	798.13
RFW-8	860.07	56	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	28.01	834.01	24.54	837.48	24.83	837.19
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	65.39	784.23	60.33	789.29	60.26	789.36
RFW-12B	844.87	264	55.08	789.79	54.68	790.19	55.10	789.77
RFW-13	849.11	150	57.94	791.17	63.87	785.24	63.91	785.20
RFW-14B	812.39	281	52.49	759.90	53.05	759.34	53.24	759.15
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	28.04	806.62	28.24	806.42	27.94	806.72
RFW-20	842.49	142	35.29	807.20	32.98	809.51	33.04	809.45
RFW-21	832.65	102	22.28	810.37	22.33	810.32	23.10	809.55
PH-7	805.94	89	35.23	770.71	21.49	784.45	34.13	771.81
PH-9	814.94	98	52.01	762.93	51.87	763.07	51.87	763.07
PH-11	820.68	78	51.36	769.32	51.29	769.39	51.28	769.40
PH-12	828.35	87	52.43	775.92	52.24	776.11	52.36	775.99
B-3	803.02	83	8.96	794.06	9.54	793.48	9.78	793.24
Amoco	842.29	INA	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	INA	2.29	802.67	2.23	802.73	1.89	803.07
Pembroke #1	INA	INA	10.46	NC	10.98	NC	10.25	NC
Pembroke #2	INA	INA	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	INA	INA	10.36	NC	10.86	NC	10.76	NC
E. Century St.	INA	INA	19.26	NC	19.20	NC	19.24	NC
Lwr. Beckleys. Rd.	INA	INA	53.47	NC	53.51	NC	53.77	NC

NA - Not Available/Not Accessible

NC - Not Calculable

\* EW-10 down for repairs

PC - Pump Cycles

**Table 2-3**  
**Effluent Characteristics Summary - 1st Quarter 2014**  
**Black & Decker**  
**Hampstead, Maryland**

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2014	February 2014	March 2014	
001	FLOW	average	MGD	NA	0.216	0.256	0.236
		maximum	MGD	NA	0.929	0.507	1.373
	1,1,1-Trichloroethane	ug/l	5	< 1	< 1	< 1	
	Tetrachloroethylene	ug/l	5	< 1	< 1	< 1	
	Trichloroethylene	ug/l	5	< 1	< 1	< 1	
	Total Residual Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	
	Oil & Grease	maximum	mg/l	15	< 5	< 5	< 5
		monthly average	mg/l	10	< 5	< 5	< 5
	pH	minimum	STD	6.0	6.6	6.7	7.7
		maximum	STD	8.5	7.1	8.3	8.4
BOD		mg/l	15	3.0	4.0	9.0	
TSS	maximum	mg/l	30	< 4	6.0	9.0	
	monthly average	mg/l	20	< 4	6.0	9.0	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.198	0.179	0.163
		maximum	MGD	NA	0.297	0.264	0.202
	Fecal Coliform	MPN/100ml	200	1.0	1.0	1.0	
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.200
		maximum	MGD	NA	NR	NR	0.300
	1,1,1-Trichloroethane	ug/l	NA	NR	NR	< 1	
	Tetrachloroethylene	ug/l	NA	NR	NR	< 1	
	Trichloroethylene	ug/l	NA	NR	NR	< 1	

DMR - Discharge Monitoring Report

NA - Not Applicable

NR - Not Reported







**Table 2-4**  
**Summary of Groundwater Analytical Results - February 2014**  
**Stanley Black & Decker**  
**Hampstead, Maryland**

PARAMETER	Units	RFW-11A	RFW-11B	RFW-12B	RFW-13	RFW-16	RFW-17	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank	RFW-20	RFW-21	Town #22	Town #23	Trip Blank
		USEPA drinking water method 524.2														
Chloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	2 U	2 U	2 U	NS	2 U	ABD	ABD	ABD	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	25	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	ug/L	NS	1 U	1.2	0.7 J	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.38 J	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	5.5 J	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	NS	3	60	2.3	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	1 U	4.9	15	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.58	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	NS	1 U	1 U	1 U	NS	0.4 J	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes: Samples from wells RFW-20 & 21, Town-22&23 are analyzed with the USEPA drinking water method 524.2 at the request of the MDE Source Protection and Appropriation Division.  
 Samples from all of the other wells are analyzed with USEPA Method 8260.  
 NS = Not sampled  
 U = Compound was analyzed but not detected.  
 ABD = Well has been abandoned

analytical data package is included in Appendix D.

As found in earlier sampling events at the Black & Decker facility, TCE and PCE were the VOCs detected at the highest concentrations in the groundwater samples. The highest concentration of TCE was detected in the groundwater samples collected from wells EW-2 and EW-4 and the highest concentration of PCE was detected in the groundwater sample collected from well EW-9. The remainder of VOCs present were detected at levels below the Federal Maximum Contaminant Levels (MCL).

### 3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

A summary of the maintenance activities which were undertaken with the extraction and treatment system during the reporting period (January through March 2014) is provided in Table 3-1. This table is comprehensive in summarizing significant maintenance events or activities, while not including those activities considered unworthy of note (such as replacement of light bulbs, lubrication of moving parts as appropriate or other routine activities).

**Table 3-1**  
**Treatment System Maintenance Activities - 1st Quarter 2014**  
**Black & Decker**  
**Hampstead, Maryland**

Date	Event/Corrective Action
Jan-14	Alarm at air stripper, EW-5 tripped off due to bad heating elements. The heating elements were replaced the well is back online.
Jan-14	Alarm at air stripper due to a frozen high column sensor, the sensor was thawed and the system is back online. Wells EW-5 and EW-10 are being run on manual mode due to a control problem.
Jan-14	Wet well supply flow alarm, The lead valve did not open fast enough, switched to the # 2 valve.
Jan-14	EW-5 and EW-10 back in auto mode.
Jan-14	Had to shut down the air stripper for about 6 hours to repair leaks in the air main. System back up and running.
Jan-14	EW-10 is off due to a control problem.
Jan-14	The control sensor that controls the column level froze and broke the pipe. The USP are running in manual and the rest of the air stripper is still running in auto, the pipes were repaired.
Feb-14	The air stripper is down for 16 hours due to a town wide power outage caused by a winter storm. The system is back on line.
Mar-14	EW-10 is back online, EW-2 is off due to a pump motor problem. A new pump motor is ordered.

#### 4. RECOMMENDATIONS

For the reporting period of January through March 2014, the treatment system continued to create a hydraulic boundary preventing off-site migration of groundwater. The extraction system will continue to operate as currently configured to pump and treat contaminated groundwater. Depth-to-water measurements will continue to be collected on a monthly basis in all site monitor wells to construct a groundwater elevation contour map for the site. The groundwater elevation contour map will be used to verify that the required area of groundwater capture is being maintained. If necessary, pumping rates will be adjusted to maintain groundwater capture due to seasonal fluctuations in groundwater elevations. The treatment system will also continue to operate as currently configured, as data collected have proven that the treatment system is fully effective in removing VOCs from the extracted groundwater.

---

**APPENDIX A**  
**GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS**  
**(JANUARY – MARCH 2014)**

---



ENT ADMINISTRATION, 1800 WASHINGTON BLVD, BALTIMORE, MD 21230

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

Facility: BTR Capital Group  
Address: 627 Hanover Pike, Hampstead Maryland  
Additional Op's & cert # - Dorrance Jones 0763, Gary Dickerson 0782, James Elliott 3738, Martin Whitt 0666, Anthony Phillips 3001, Dave Coale 1662, Jamaal Downs 2755

Permit Number: 07-DP-0022  
Superintendent: Earle Villarreal Certification # 1017

Month: January  
Year: 2014

Date	Appearance	Discharge MGD	pH su	Cl2 mg/l	Final Effluent outfall 001											Outfall 101					Outfall 201			Operator				
					Turbidity ug/l	1,1,1-Trichloroethane ug/l	Trichloroethane ug/l	BOD <sub>5</sub> mg/l	TSS mg/l	TKN mg/l	N+N mg/l	TP mg/l	TN mg/l	O&G mg/l	eColi mpn	Flow MGD	eColi mpn	Basin Inches	Alum Gpd	Hypochlorite Gpd	Post Cl2 mg/l	Turbidity ug/l	1,1,1-Trichloroethane ug/l		Trichloroethane ug/l	Discharge mgd		
1	Clear	0.19100															0.168000		0.0	1.0	1.0	5.0				0.202132	Jelliott	
2	Clear	0.17400	6.58	0.00													0.200000		0.0	1.0	1.0	5.0				0.213961	Djones	
3	Clear	0.28500															0.231000		0.0	1.0	1.0	5.0				0.235913	Djones	
4	Clear	0.19700															0.192000		0.0	1.0	1.0	5.0				0.205812	Gdickerson	
5	Clear	0.19800															0.175000		0.0	1.0	1.0	5.0				0.212133	Gdickerson	
6	Clear	0.60300	6.60	0.00													0.187000		0.0	1.0	1.0	5.0				0.225952	Djones	
7	Clear	0.22700															0.238000	<1	0.0	1.0	1.0	5.0				0.107323	Jelliott	
8	Clear	0.07800															0.186000		0.0	1.0	1.0	5.0				0.168433	Djones	
9	Clear	0.09900	6.90	0.00													0.179000		0.0	1.0	1.0	5.0				0.136964	Djones	
10	Clear	0.09300															0.228000		0.0	1.0	1.0	5.0				0.114448	Djones	
11	Clear	0.92900															0.188000		0.0	1.0	1.0	5.0				0.163410	Mwhitt	
12	Clear	0.79100															0.181000		0.0	1.0	1.0	5.0				0.166830	Mwhitt	
13	Clear	0.14600	6.70	0.00													0.205000		0.0	1.0	1.0	5.0				0.177557	Djones	
14	Clear	0.17300			<1	<1	<1	3.00	<4	0.74	2.33	<0.05	3.1	<5	13.7		0.187000	<1	0.0	1.0	1.0	5.0				0.177559	Djones	
15	Clear	0.29600															0.202000		0.0	1.0	1.0	5.0				0.209762	Djones	
16	Clear	0.19000	6.63	0.00													0.197800		0.0	1.0	1.0	5.0				0.217438	Gdickerson	
17	Clear	0.17400															0.208000		0.0	1.0	1.0	5.0				0.256478	Djones	
18	Clear	0.20000															0.191000		0.0	1.0	1.0	5.0				0.235332	Jelliott	
19	Clear	0.14700															0.201000		0.0	1.0	1.0	5.0				0.219938	Jelliott	
20	Clear	0.14200															0.297000		0.0	1.0	1.0	5.0				0.203531	APhillips	
21	Clear	0.20800															0.165000		0.0	1.0	1.0	5.0				0.242033	Decoale	
22	Clear	0.20900	6.87	0.00													0.203000	<1	0.0	1.0	1.0	5.0				0.159392	Jdowns	
23	Clear	0.02600															0.207000		0.0	1.0	1.0	5.0				0.064554	Djones	
24	Clear	0.07500	7.03	0.00													0.201000		0.0	1.0	1.0	5.0				0.204146	Jelliott	
25	Clear	0.15100															0.191000		0.0	1.0	1.0	5.0				0.209515	APhillips	
26	Clear	0.12900															0.180000		0.0	1.0	1.0	5.0				0.196194	APhillips	
27	Clear	0.13200															0.224000		0.0	1.0	1.0	5.0				0.210123	Djones	
28	Clear	0.11800	6.72	0.00	<1	<1	<1										0.187000	<1	0.0	1.0	1.0	5.0	<1	<1	<1	0.192173	Djones	
29	Clear	0.12000															0.178000		0.0	1.0	1.0	5.0				0.175681	Djones	
30	Clear	0.10000	7.10	0.00													0.178000		0.0	1.0	1.0	5.0				0.177920	Djones	
31	Clear	0.10800															0.171000		0.0	1.0	1.0	5.0				0.213163	Djones	
Total		6.70900															6.126800										5.895800	
Average		0.21642	6.8	<0.10	0	0	0	3	0	1	2	0	3	0	14		0.197639	1.0	0.0	1.0	1.0	5.0	0.0	0.0	0.0	0.190187		
Minimum		0.02600	6.6	0.00	0	0	0	3	0	0	2	0	3	0	14		0.165000	0.0	0.0	1.0	1.0	5.0	0.0	0.0	0.0	0.064554		
Maximum		0.92900	7.1	<0.10	0	0	0	3	0	1	2	0	3	0	14		0.297000	0.0	0.0	1.0	1.0	5.0	0.0	0.0	0.0	0.256478	MOR 01-3-14	

COMMENTS:

ENT ADMINISTRATION, 1800 WASHINGTON BLVD, BALTIMORE, MD 21230

Operated By:

Facility: **BTR Capital Group**

Permit Number: **07-DP-0022**

Month: **February**

Maryland Environmental Service  
259 Najoles Road, Millersville MD

Address: **627 Hanover Pike, Hampstead Maryland**

Superintendent: **Earle Villarreal**

Certification # **1017**

Year: **2014**

Additional Op's & cert # - Dorrance Jones 0763, James Elliott 3738, Anthony Phillips 3001, Martin Whitt 0666

Date	Appearance	Final Effluent outfall 001														Outfall 101					Outfall 201			Operator		
		Discharge MGD	pH su	Cl2 mg/l	Total Ammonia Nitrogen ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	BOD <sub>5</sub> mg/l	TSS mg/l	TKN mg/l	N+N mg/l	TP mg/l	TN mg/l	O&G mg/l	eColi mpn	Flow MGD	eColi mpn	Basin Inches	Alum Gpd	Hypochlorite Gpd	Post Cl2 mg/l	Total Ammonia Nitrogen ug/l	1,1,1-Trichloroethane ug/l		Trichloroethene ug/l	Discharge mgd
1	Clear	0.12200													0.152000		0"	1.0	1.0	5.0				0.187461	Djones	
2	Clear	0.13400													0.158000		0"	1.0	1.0	5.0				0.180124	Djones	
3	Clear	0.49600													0.203000		0"	1.0	1.0	5.0				0.182879	Jelliott	
4	Clear	0.37800	7.79	0.00											0.009150	<1	0"	1.0	1.0	5.0				0.212061	Jelliott	
5	Clear	0.29200													0.009150		0"	1.0	1.0	5.0				0.114692	Jelliott	
6	Clear	0.25200	6.90	0.00											0.234000		0"	1.0	1.0	5.0				0.114925	Djones	
7	Clear	0.20700													0.207000		0"	1.0	1.0	5.0				0.200320	Djones	
8	Clear	0.22100													0.188000		0"	1.0	1.0	5.0				0.185707	APhillips	
9	Clear	0.14500													0.186000		0"	1.0	1.0	5.0				0.192228	APhillips	
10	Clear	0.17600													0.204000		0"	1.1	1.0	5.0				0.209417	Djones	
11	Clear	0.16200	6.82	0.00	<1	<1	<1	4.00	6.00	1.44	2.68	0.12	4.1	<5	17.8	0.186000	<1	0"	1.0	1.0	5.0	<1	<1	<1	0.201351	Djones
12	Clear	0.13600	6.70	0.00											0.105000		0"	1.0	1.0	5.0				0.192838	Djones	
13	Clear	0.08400													0.264000		0"	1.0	1.0	5.0				0.089603	Jelliott	
14	Clear	0.49800													0.198000		0"	1.0	1.0	5.0				0.299766	Djones	
15	Clear	0.49800													0.201000		0"	1.0	1.0	5.0				0.184518	Jelliott	
16	Clear	0.21800													0.210000		0"	1.0	1.0	5.0				0.190054	Jelliott	
17	Clear	0.19700													0.180000		0"	1.0	1.0	5.0				0.214546	Mwhitt	
18	Clear	0.17800	6.87	0.00											0.184000		0"	1.0	1.0	5.0				0.185903	Mwhitt	
19	Clear	0.22600													0.181000	<1	0"	1.0	1.0	5.0				0.213246	Jelliott	
20	Clear	0.46400													0.151000		0"	1.0	1.0	5.0				0.187990	Jelliott	
21	Clear	0.35800	7.08	0.00											0.222000		0"	1.0	1.0	5.0				0.168058	Jelliott	
22	Clear	0.50700													0.179000		0"	1.0	1.0	5.0				0.229978	Djones	
23	Clear	0.29700													0.196000		0"	1.0	1.0	5.0				0.189872	Djones	
24	Clear	0.31900													0.185000		0"	1.0	1.0	5.0				0.196935	Mwhitt	
25	Clear	0.15000													0.229000	<1	0"	1.0	1.0	5.0				0.192789	APhillips	
26	Clear	0.16100													0.178000		0"	1.0	1.0	5.0				0.206670	Djones	
27	Clear	0.15600	8.31	0.00											0.199000		0"	1.0	1.0	5.0				0.196710	Djones	
28	Clear	0.13200	8.11	0.00											0.204000		0"	1.0	1.0	5.0				0.195525	Djones	
29																										
30																										
31																										
Total		7.16400													5.002300										5.316166	
Average		0.25586	7.3	<0.10	0	0	0	4.0	6.0	1.4	2.7	0	4	0.0	18	0.178654	1.0	#DIV/0!	1.0	1.0	5.0	0.0	0.0	0.0	0.189863	
Minimum		0.08400	6.7	0.00	0	0	0	4.0	6.0	1.4	2.7	0	4	0.0	18	0.009150	0.0	0.0	1.0	1.0	5.0	0.0	0.0	0.0	0.089603	
Maximum		0.50700	8.3	<0.10	0	0	0	4.0	6.0	1.4	2.7	0	4	0.0	18	0.264000	0.0	0.0	1.1	1.0	5.0	0.0	0.0	0.0	0.299766	MOR 01-3-14

COMMENTS: