

April 2, 2019

Ms. Ellen Jackson, Central Region Section Head
Maryland Department of the Environment
Remediation Division
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, Maryland 21230-1719

Via: FedEx

**Re: 2019 First Quarter Status Report
Former Hess Station #20204
1613 East Joppa Road
Towson, Maryland
Case Number 1991-2100 BA**

Dear Ms. Jackson:

Enclosed please find the above-referenced report. This report summarizes the results of the groundwater management system (System) vapor screening, operations and maintenance (O&M), and discharge sampling events conducted during the First Quarter of 2019. Per the Maryland Department of the Environment's (MDE) letter dated November 15, 2018, the groundwater monitoring and sampling events will now be conducted on a semi-annual basis (May and November). The next groundwater monitoring and sampling event is scheduled for May 2019.

Should you have any questions or require any additional information, please feel free to contact me by telephone at (610) 866-7799 or via email at jfox@emsenv.com. If you have any questions relating to the project, please contact John Schenkewitz of Hess Corporation at (609) 406-3969.

Sincerely,
EMS Environmental, Inc.



Jeremy L. Fox
Regional Manger

Enclosure

cc: J. Schenkewitz, Hess Corporation
T. Jackson, Baker Botts
G. Helfrick, PMG
B. Hopkins, NeighborSpace
P. Groff Robertson, WSP

April 2, 2019

**2019 FIRST QUARTER STATUS REPORT
FORMER HESS STATION #20204
1613 East Joppa Road
Towson, Maryland
Case Number 1991-2100 BA**

Prepared For: Hess Corporation
Trenton-Mercer Airport
601 Jack Stephan Way
West Trenton, NJ 08628

Prepared By: EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017

INTRODUCTION

The following is the 2019 First Quarter Site Status Report for Former Hess Station #20204, located at 1613 East Joppa Road in Towson, Maryland. Per the Maryland Department of the Environment's (MDE) letter dated November 15, 2018, the groundwater monitoring and sampling events are to be conducted on a semi-annual basis (May and November). Therefore, groundwater samples were not collected during the 2019 First Quarter. Historical groundwater monitoring and sampling data is summarized on **Tables 1** and **2**.

This report includes results from the groundwater management system vapor screening, operations and maintenance (O&M), and discharge sampling events. **Figure 1** is included as a Site Plan depicting the subject site layout, adjacent properties, the location of the site's below-grade system, as well as all monitoring wells, piezometers, storm drain outlets, and vapor monitoring points bounded by the area known as Ridgely Manor Park.

During the First Quarter of 2019, continued monthly system vapor screening events, using a photoionization detector (PID) were conducted at the designated vapor monitoring points depicted in **Figure 1**. Additionally, system O&M events were performed on a bi-monthly basis. Pre- and post-treatment groundwater samples were collected twice monthly from the system's groundwater collection vault. Besides routine system maintenance (e.g. filter bag and carbon changeouts, pump and hose checks, electrical component maintenance, system throughput monitoring, etc.), noteworthy or unusual conditions, such as surficial dissolved iron staining, were not observed. **Tables 3** through **5** summarize the system vapor screening and discharge data.

REMEDIATION DATA

<u>Technology:</u>	Groundwater Collection System
<u>System Start:</u>	May 22, 2014
<u>Waste Stream Treatment:</u>	Groundwater collected within the site's groundwater collection system vault is treated via the use of both liquid phase carbon adsorbers and filter bags prior to being discharged to the adjacent public storm sewer system.
<u>Vapor Screening Frequency:</u>	Monthly (See Table 3)
<u>O&M Frequency:</u>	Weekly
<u>Discharge Sampling Frequency:</u>	Twice monthly
<u>System Performance Data:</u>	See Tables 4 and 5

SCHEDULED/PROPOSED WORK

System vapor screening events are scheduled to continue on a monthly basis during the Second Quarter of 2019. System O&M events and discharge sampling events are scheduled to continue weekly and twice monthly, respectively, during the Second Quarter of 2019. The next semi-annual groundwater monitoring and sampling event is scheduled for May 2019.

ATTACHMENTS

Figure 1:

Site Plan

Table 1:

Historical Groundwater Monitoring Data
Summary

Table 2:

Groundwater Gauging Results Summary

Table 3:

Monthly PID Screening Results Summary







Table 4:

Groundwater Treatment System Discharge
Summary

Table 5:

Groundwater Treatment System Sampling
Results Summary

LEGEND

- Ridgely Manor Park Boundary
-  Groundwater Monitoring Well
-  Piezometer
-  Groundwater Management System Access Manhole (Vapor Screening Point)
-  Stormwater Inlet Callout
-  Drainage Piping Cleanout
-  Below Grade Groundwater Management System Vault
- Underground Groundwater Management System Drainage Piping

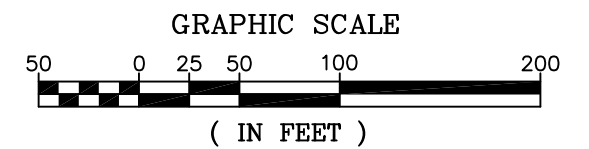
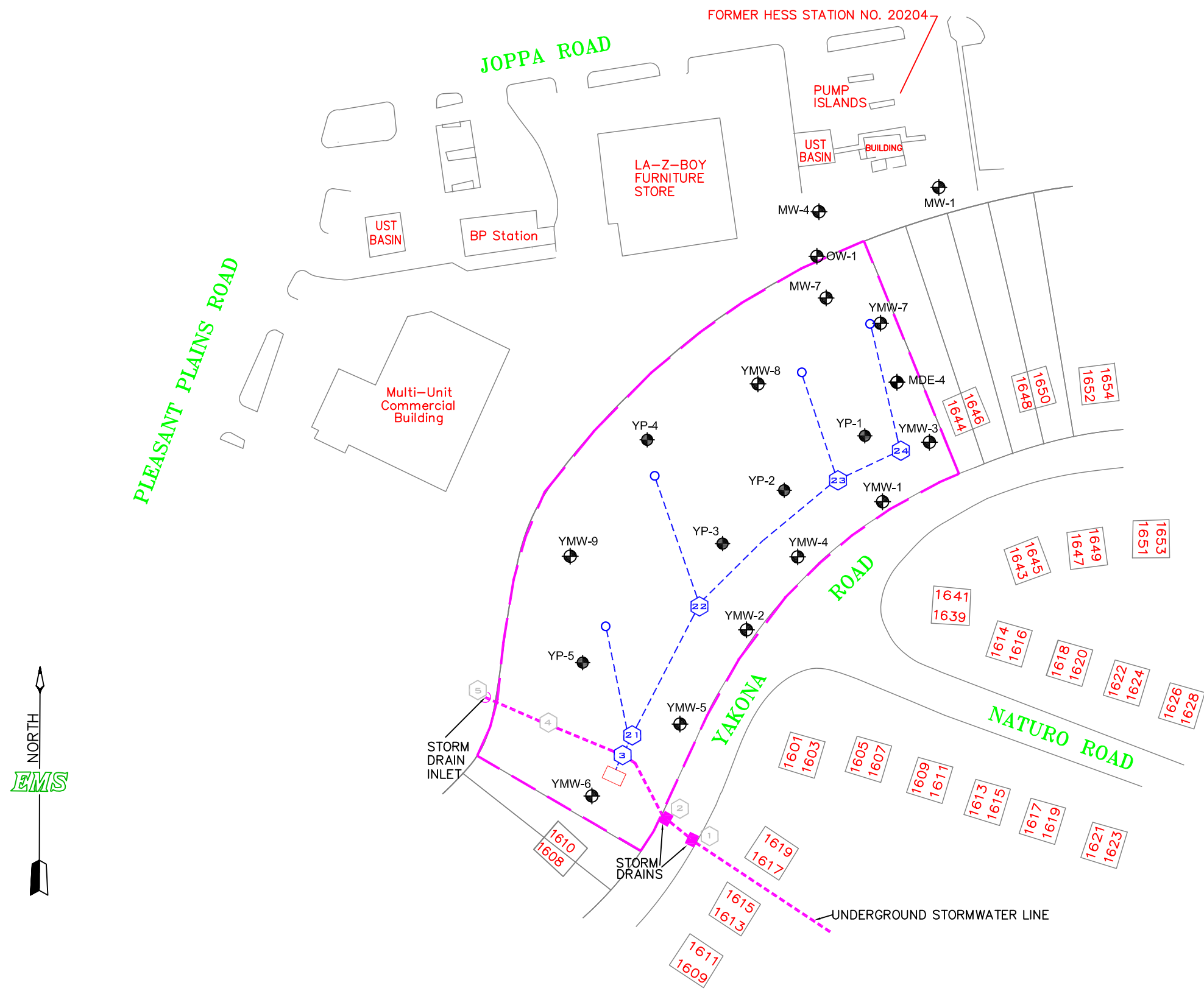


FIGURE 1
SITE PLAN
 FORMER HESS STATION #20204
 1613 East Joppa Road
 Towson, Maryland

Drawn By: YSN
 Date: 4/5/16



Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)	
MDE-4	7/17/1996	NSVD	NM	NM	NM	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	
	11/26/1996	NSVD	NM	NM	NM	3	3	ND	ND	6	ND	NS	NS	NS	NS	
	2/27/1997	444.03	5.78	0.00	438.25	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	
	5/30/1997	444.03	6.20	0.00	437.83	ND	ND	ND	2	2	ND	NS	NS	NS	NS	
	8/21/1997	444.03	7.37	0.00	436.66	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	
	11/25/1997	444.03	7.42	0.00	436.61	11	642	892	3,050	4,595	69	NS	NS	NS	NS	NS
	2/19/1998	444.03	6.01	0.00	438.02	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
	5/28/1998	444.03	5.60	0.00	438.43	4	5	4	8	21	ND	NS	NS	NS	NS	NS
	8/18/1998	444.03	6.68	0.00	437.35	13	10	57	92	172	31	NS	NS	NS	NS	NS
	11/21/1998	444.03	7.64	0.00	436.39	1	8	31	176	216	57	NS	NS	NS	NS	NS
	2/17/1999	444.03	7.70	0.00	436.33	3.7	107	193	605	909	39	NS	NS	NS	NS	NS
	5/24/1999	444.03	7.02	0.00	437.01	2	ND	ND	ND	2	ND	NS	NS	NS	NS	NS
	8/26/1999	444.03	7.87	0.00	436.16	24	140	390	750	1,304	44	NS	NS	NS	NS	NS
	11/18/1999	444.03	6.90	0.00	437.13	ND	500	920	2,850	4,270	ND	NS	NS	NS	NS	NS
	2/23/2000	444.03	6.50	0.00	437.53	ND	ND	ND	ND	ND	3.9	NS	NS	NS	NS	NS
	5/17/2000	444.03	6.00	0.00	438.03	ND	ND	2.4	11.7	14.1	30	NS	NS	NS	NS	NS
	8/3/2000	444.03	6.48	0.00	437.55	7.7	9	59	101	177	54	NS	NS	NS	NS	NS
	11/20/2000	444.03	7.15	0.00	436.88	ND	ND	120	242	362	ND	NS	NS	NS	NS	NS
	2/20/2001	444.03	6.87	0.00	437.16	7.3	7.5	19	81	115	22	NS	NS	NS	NS	NS
	5/25/2001	444.03	6.66	0.00	437.37	15	8.8	ND	20.3	44	34	NS	NS	NS	NS	NS
	8/6/2001	444.03	7.26	0.00	436.77	9.7	33	380	1,220	1,643	87	NS	NS	NS	NS	NS
	11/7/2001	444.03	8.39	0.00	435.64	ND	41	220	760	1,021	120	NS	NS	NS	NS	NS
	2/22/2002	444.03	8.83	0.00	435.20	12	91	220	1,380	1,703	ND	NS	NS	NS	NS	NS
	5/16/2002	444.03	6.52	0.00	437.51	ND	27	120	268	415	15	NS	NS	NS	NS	NS
	8/6/2002	444.03	8.72	0.00	435.31	ND	360	1,100	3,630	5,090	150	NS	NS	NS	NS	NS
	11/13/2002	444.03	8.23	0.00	435.80	ND	610	1,300	5,900	7,810	ND	NS	NS	NS	NS	NS
	3/5/2003	444.03	5.43	0.00	438.60	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
	5/13/2003	444.03	5.36	0.00	438.67	2.0	ND	ND	2.6	4.6	11	NS	NS	NS	NS	NS
	8/27/2003	444.03	5.72	0.00	438.31	1.0	ND	1.8	ND	2.8	ND	NS	NS	NS	NS	NS
	11/12/2003	444.03	6.66	0.00	437.37	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
	2/2/2004	444.03	5.39	0.00	438.64	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
	5/14/2004	444.03	5.24	0.00	438.79	ND	ND	ND	ND	ND	1.7	NS	NS	NS	NS	NS
	8/19/2004	444.03	5.97	0.00	438.06	ND	ND	ND	ND	ND	26.8	NS	NS	NS	NS	NS
	5/19/2005	444.03	5.94	0.00	438.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/24/2007	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2007	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/27/2008	444.03	6.91	0.00	437.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
6/25/2008	444.03	6.56	0.00	437.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/24/2008	444.03	7.14	0.00	436.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/17/2008	444.03	6.53	0.00	437.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/31/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
6/22/2009	444.03	6.36	0.00	437.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/25/2009	444.03	6.60	0.00	437.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/14/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/28/2009	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/17/2010	444.03	4.51	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/18/2010	444.03	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8/24/2010	443.68	6.69	0.00	436.99	1.3	0.87 (J)	2.8	1.3	6.27 (J)	ND	ND	858	216	1.6 (J)	ND	
11/11/2011	443.68	7.17	0.00	436.51	ND	ND	0.42 (J)	ND	0.42 (J)	ND	ND	ND	ND	ND	ND	
6/23/2011	443.68	6.26	0.00	437.42	1.3	0.46 (J)	4.4	3.6	9.76 (J)	ND	ND	982	464	3.3 (J)	ND	
9/28/2011	443.68	6.02	0.00	437.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
12/21/2012	443.68	5.90	0.00	437.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
3/21/2012	443.68	6.18	0.00	437.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
5/16/2012	443.68	6.48	0.00	437.20	0.50 (J)	ND	0.46 (J)	0.73 (J)	1.69 (J)	ND	ND	340	104	ND	ND	
8/29/2012	443.68	7.67	0.00	436.01	0.50 (J)	ND	0.30 (J)	0.43 (J)	1.23 (J)	ND	ND	407	ND	ND	ND	
12/19/2012	443.68	6.94	0.00	436.74	0.40 (J)	0.44 (J)	2.5	19.2	22.54 (J)	ND	ND	390	372	1.1 (J)	ND	
3/20/2013	443.68	6.57	0.00	437.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/19/2013	443.68	6.47	0.00	437.21	0.45 (J)	0.56 (J)	7.0	8.4	16.41 (J)	ND	ND	328	ND	2.0 (J)	ND	
9/19/2013	443.68	7.31	0.00	436.37	0.71 (J)	ND	1.3	0.60 (J)	2.61 (J)	ND	ND	580	221	2.0 (J)	ND	
11/22/2013	443.68	7.25	0.00	436.43	1.9	3.2	427	1,420	1,852.10	ND	ND	13,300	2,310	110	ND	
3/20/2014	443.68	5.56	0.00	438.12	ND	ND	0.99	5.8	6.79	ND	ND	ND	ND	ND	ND	
6/18/2014	443.68	8.33	0.00	435.35	ND	1.2	ND	17.5	18.7	ND	ND	762	***	6.9	ND	
6/30/2014	443.68	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9/23/2014	443.18	9.54	0.00	433.64	ND	0.53 (J)	0.99 (J)	1.1	2.62 (J)	ND	ND	ND	ND	ND	ND	
12/23/2014	443.18	9.94	0.00	433.24	ND	ND	0.62 (J)	0.53 (J)	1.15 (J)	ND	ND	ND	ND	ND	ND	
3/24/2015	443.18	9.58	0.00	433.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/22/2015	443.18	9.25	0.00	433.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/21/2015	443.18	9.28	0.00	433.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	ND	
12/9/2015	443.18	9.58	0.00	433.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	98.4	ND	
3/8/2016	443.18	8.98	0.00	434.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/7/2016	443.18	9.03	0.00	434.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/13/2016	443.18	9.48	0.00	433.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	94.6	ND	
11/21/2016	443.18	9.90	0.00	433.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	469	ND	
3/9/2017	443.18	10.42	0.00	432.76	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/7/2017	443.18	9.72	0.00	433.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/6/2017	443.18	9.77	0.00	433.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
11/1/2017	443.18	9.97	0.00	433.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	154	ND	
3/6/2018	443.18	9.84	0.00	433.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
6/20/2018	443.18	8.72	0.00	434.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2018	443.18	8.64	0.00	434.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7	

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-1	3/28/1991	455.93	15.86	0.00	440.07	17	ND	ND	35	52	5	NS	NS	NS	NS
	6/26/1991	455.93	29.40	0.00	426.53	2	ND	ND	2	4	8	NS	NS	NS	NS
Casing: Unknown	9/1/1992	455.93	26.35	0.00	429.58	25	18	10	41	94	ND	NS	NS	NS	NS
	1/7/1993	455.93	24.70	0.00	431.23	3	4	ND	10	17	142	NS	NS	NS	NS
Screen: Unknown	4/12/1993	455.93	NM	NM	NM	29	5	7	51	92	30	NS	NS	NS	NS
	7/15/1993	455.93	NM	NM	NM	12	3	3	66	84	ND	NS	NS	NS	NS
10/19/1993	455.93	NM	NM	NM	11	ND	ND	37	48	ND	NS	NS	NS	NS	NS
1/26/1994	455.93	NM	NM	NM	10	ND	3	22	35	ND	NS	NS	NS	NS	NS
4/20/1994	455.93	NM	NM	NM	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
8/2/1994	455.93	NM	NM	NM	23	ND	4	38	65	ND	NS	NS	NS	NS	NS
11/22/1994	455.93	NM	NM	NM	14	ND	3	16	33	11	NS	NS	NS	NS	NS
3/3/1995	455.93	NM	NM	NM	12	2	3	13	30	6	NS	NS	NS	NS	NS
5/9/1995	455.93	NM	NM	NM	10	ND	ND	11	21	16	NS	NS	NS	NS	NS
8/15/1995	455.93	NM	NM	NM	12	ND	2	23	37	ND	NS	NS	NS	NS	NS
11/28/1995	455.93	NM	NM	NM	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
2/13/1996	455.93	16.20	0.00	439.73	ND	ND	ND	4	4	ND	NS	NS	NS	NS	NS
5/15/1996	455.93	18.06	0.00	437.87	4	ND	ND	6	10	24.3	NS	NS	NS	NS	NS
8/28/1996	455.93	16.95	0.00	438.98	ND	6	3	12	21	5.6	NS	NS	NS	NS	NS
11/26/1996	455.93	26.21	0.00	429.72	3	ND	ND	2	5	ND	NS	NS	NS	NS	NS
2/27/1997	455.93	15.73	0.00	440.20	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
5/30/1997	455.93	16.00	0.00	439.93	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
8/21/1997	455.93	18.66	0.00	437.27	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
11/25/1997	455.93	17.97	0.00	437.96	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
2/19/1998	455.93	15.47	0.00	440.46	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
5/28/1998	455.93	15.06	0.00	440.87	ND	ND	3	9	12	ND	NS	NS	NS	NS	NS
8/18/1998	455.93	16.42	0.00	439.51	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
5/19/2005	455.93	16.83	0.00	439.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/24/2007	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/27/2007	455.93	17.58	0.00	438.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/27/2008	455.93	17.39	0.00	438.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/25/2008	455.93	16.41	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/24/2008	455.93	16.57	0.00	439.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/17/2008	455.93	16.26	0.00	439.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/31/2009	455.93	17.87	0.00	438.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/22/2009	455.93	16.07	0.00	439.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/25/2009	455.93	16.48	0.00	439.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/14/2009	455.93	15.94	0.00	439.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/28/2009	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/17/2010	455.93	0.01	0.00	455.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/18/2010	455.93	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/26/2010	454.42	16.61	0.00	437.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/10/2011	454.42	17.64	0.00	436.78	ND	ND	ND	ND	ND	ND	ND	ND	ND (<200)	ND (<100)	ND
6/22/2011	454.42	16.05	0.00	438.37	ND	ND	ND	ND	ND	ND	ND	ND	ND (<200)	ND (<110)	ND
9/28/2011	454.42	6.68	0.00	447.74	ND	ND	ND	ND	ND	ND	ND	ND	ND (<200)	ND (<110)	ND
12/20/2012	454.42	15.90	0.00	438.52	ND	ND	ND	ND	ND	ND	ND	ND	ND (<200)	ND (<100)	ND
3/21/2012	454.42	16.41	0.00	438.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/15/2012	454.42	14.43	0.00	439.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/28/2012	454.42	15.84	0.00	438.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/18/2012	454.42	17.16	0.00	437.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/19/2013	454.42	16.57	0.00	437.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/18/2013	454.42	17.45	0.00	436.97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/19/2013	454.42	17.54	0.00	436.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/22/2013	454.42	17.87	0.00	436.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/20/2014	454.42	15.89	0.00	438.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59 (J)
***	6/18/2014	454.42	18.43	0.00	435.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	***
***	6/30/2014	454.42	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
9/23/2014	453.92	18.73	0.00	435.19	ND	ND	ND	ND	ND	ND	18.4	ND	ND	243	ND
12/23/2014	453.92	19.67	0.00	434.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (<80)	ND
3/24/2015	453.92	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/22/2015	453.92	18.24	0.00	435.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	102	ND
9/21/2015	453.92	18.49	0.00	435.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	233	ND
12/9/2015	453.92	19.24	0.00	434.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (<64)	ND
3/8/2016	453.92	18.28	0.00	435.64	ND	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<64)	ND
6/7/2016	453.92	18.21	0.00	435.71	ND	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<58)	ND
9/13/2016	453.92	18.92	0.00	435.00	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	108	ND
11/21/2016	453.92	19.83	0.00	434.09	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND
3/9/2017	453.92	20.49	0.00	433.43	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)
6/7/2017	453.92	19.38	0.00	434.54	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)
9/6/2017	453.92	19.04	0.00	434.88	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)
11/1/2017	453.92	19.67	0.00	434.25	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)
3/6/2018	453.92	20.16	0.00	433.76	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	91.9	ND (<1.1)
6/20/2018	453.92	17.45	0.00	436.47	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)
9/5/2018	453.92	16.71	0.00	437.21	ND	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<53)	ND (<0.98)
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-4	3/28/1991	457.11	16.98	0.00	440.13	600	1,300	380	1,500	3,780	40	NS	NS	NS	NS
	6/26/1991	457.11	23.80	0.00	433.31	3,775	4,825	925	4,075	13,600	1,125	NS	NS	NS	NS
Casing: 0 to 10 feet	9/1/1992	457.11	22.00	0.00	435.11	3,500	9,300	1,625	5,225	19,650	1,100	NS	NS	NS	NS
	9/4/1992	457.11	22.79	0.01	434.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Screen: 10 to 25 feet	10/15/1992	457.11	22.98	sheen	434.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/9/1992	457.11	23.20	2.50	435.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/9/1992	457.11	21.58	1.36	436.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/7/1993	457.11	21.68	0.02	435.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/1993	457.11	23.15	0.85	434.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/8/1993	457.11	20.10	sheen	437.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/12/1993	457.11	18.20	0.05	438.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/11/1993	457.11	18.10	0.15	439.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/3/1993	457.11	18.96	0.38	438.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/7/1993	457.11	19.65	0.30	437.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/2/1993	457.11	18.95	0.00	438.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/15/1993	457.11	19.34	0.00	437.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/19/1993	457.11	19.75	0.00	437.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/1993	457.11	20.75	sheen	436.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/1993	457.11	19.85	0.00	437.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/1994	457.11	17.84	0.00	439.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/11/1994	457.11	17.13	0.00	439.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/20/1994	457.11	17.68	0.00	439.43	1,650	6,130	678	3,950	12,408	223	NS	NS	NS	NS
	8/2/1994	457.11	18.35	0.00	438.76	2,630	12,200	1,430	9,070	25,330	ND	NS	NS	NS	NS
	11/22/1994	457.11	18.52	0.00	438.59	2,950	7,040	1,430	8,700	20,120	340	NS	NS	NS	NS
	3/3/1995	457.11	20.31	0.00	436.80	1,560	12,400	1,690	9,050	24,700	775	NS	NS	NS	NS
	5/9/1995	457.11	20.25	0.00	436.86	1,600	12,800	1,840	10,400	26,640	499	NS	NS	NS	NS
	8/15/1995	457.11	21.10	0.00	436.01	<200	<200	<200	726	726	<200	NS	NS	NS	NS
	7/24/1995	457.11	19.29	0.02	437.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/28/1995	457.11	22.00	0.00	435.11	ND	10	ND	58	68	47	NS	NS	NS	NS
	2/13/1996	457.11	20.20	0.00	436.91	3	11	2	21	37	14	NS	NS	NS	NS
	5/15/1996	457.11	17.60	0.00	439.51	ND	53	18	133	204	6	NS	NS	NS	NS
	8/28/1996	457.11	16.98	0.00	440.13	ND	3	3	10	16	6	NS	NS	NS	NS
	11/26/1996	457.11	15.85	0.00	441.26	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/27/1997	457.11	14.19	0.00	442.92	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/30/1997	457.11	15.77	0.00	441.34	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/21/1997	457.11	19.01	0.00	438.10	15	24	4	27	70	ND	NS	NS	NS	NS
	11/25/1997	457.11	19.15	0.00	437.96	89	75	143	240	547	3	NS	NS	NS	NS
	2/19/1998	457.11	17.68	0.00	439.43	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	5/28/1998	457.11	16.64	0.00	440.47	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/18/1998	457.11	18.21	0.00	438.90	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/21/1998	457.11	19.65	0.00	437.46	71	1,600	183	731	2,585	19	NS	NS	NS	NS
	2/17/1999	457.11	19.70	0.00	437.41	ND	780	252	460	1,492	<100	NS	NS	NS	NS
	5/24/1999	457.11	18.90	0.00	438.21	ND	14	8.7	21.9	44.6	77.7	NS	NS	NS	NS
	8/26/1999	457.11	20.60	0.00	436.51	ND	ND	35	123	158	220	NS	NS	NS	NS
	11/18/1999	457.11	18.52	0.00	438.59	ND	ND	ND	3.8	3.8	2,000	NS	NS	NS	NS
	12/29/1999	457.11	NM	NM	NM	ND	ND	ND	ND	ND	2,100	NS	NS	NS	NS
	2/23/2000	457.11	19.21	0.00	437.90	120	4.5	32	106	263	730	NS	NS	NS	NS
	5/17/2000	457.11	16.90	0.00	440.21	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	8/3/2000	457.11	17.28	0.00	439.83	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	11/20/2000	457.11	19.69	0.00	437.42	87	ND	ND	ND	87	3,000	NS	NS	NS	NS
	2/20/2001	457.11	18.60	0.00	438.51	ND	ND	ND	ND	ND	6.8	NS	NS	NS	NS
	5/25/2001	457.11	17.30	0.00	439.81	ND	ND	ND	ND	ND	2.0	NS	NS	NS	NS
	8/6/2001	457.11	19.17	0.00	437.94	ND	ND	ND	ND	2.0	NS	NS	NS	NS	NS
	11/7/2001	457.11	21.17	0.00	435.94	330	62	370	800	1,562	110	NS	NS	NS	NS
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

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Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-4 (continued)	2/22/2002	457.11	20.80	0.00	436.31	81	120	200	510	911	33	NS	NS	NS	NS
	5/16/2002	457.11	18.12	0.00	438.99	ND	15	12	223	250	2.2	NS	NS	NS	NS
	8/6/2002	457.11	21.61	0.00	435.50	3.5	3.2	7.0	22.8	36.5	3.9	NS	NS	NS	NS
	11/13/2002	457.11	18.81	0.00	438.30	ND	4.9	14	141	159.9	ND	NS	NS	NS	NS
	3/5/2003	457.11	18.41	0.00	438.70	ND	ND	ND	ND	ND	2.0	NS	NS	NS	NS
	5/13/2003	457.11	16.96	0.00	440.15	3.9	ND	ND	ND	3.9	110	NS	NS	NS	NS
	9/25/2003	457.11	NM	NM	NM	ND	ND	ND	ND	ND	1.5	NS	NS	NS	NS
	11/12/2003	457.11	18.32	0.00	438.79	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
	2/2/2004	457.11	14.70	0.00	442.41	ND	ND	ND	ND	ND	666	NS	NS	NS	NS
	5/14/2004	457.11	18.09	0.00	439.02	ND	ND	ND	ND	ND	24.8	NS	NS	NS	NS
	8/19/2004	457.11	16.55	0.00	440.56	1.6	2.1	36.5	92.4	132.6	1.6	NS	NS	NS	NS
	11/22/2004	457.11	19.43	0.00	437.68	ND	ND	0.31 (J)	0.57 (J)	0.88 (J)	0.29 (J)	NS	NS	NS	NS
	2/23/2005	457.11	18.93	0.00	438.18	ND	ND	ND	ND	ND	0.65 (J)	NS	NS	NS	NS
	5/19/2005	457.11	16.67	0.00	440.44	ND	ND	ND	ND	ND	0.91 (J)	ND	ND	ND	ND
	8/24/2007	457.11	19.06	0.00	438.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/27/2007	457.11	18.72	0.00	438.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/27/2008	457.11	18.63	0.00	438.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2008	457.11	17.57	0.00	439.54	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/2008	457.11	19.28	0.00	437.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/17/2008	457.11	19.10	0.00	438.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2009	457.11	19.12	0.00	437.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2009	457.11	15.07	0.00	442.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/25/2009	457.11	17.63	0.00	439.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2009	457.11	16.56	0.00	440.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	457.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/17/2010	457.11	14.98	0.00	442.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	457.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/23/2010	455.60	18.10	0.00	437.50	0.52 (J)	22.3	41.1	84.2	148.12 (J)	ND	ND	449	244	7.2
	11/10/2011	455.60	18.94	0.00	436.66	16.4	16.9	151	235	419.30	2.7	112	1,940	1,930	84.1
	6/22/2011	455.60	17.57	0.00	438.03	8.7	10.6	5.7	8.6	33.60	1.9	128	306	304	ND
	9/28/2011	455.60	17.08	0.00	438.52	ND	ND	ND	ND	ND	ND	ND	ND (<200)	ND (<100)	ND
	12/20/2012	455.60	17.30	0.00	438.30	ND	ND	0.29 (J)	ND	0.29 (J)	ND	ND	ND (<200)	ND (<100)	ND
	3/21/2012	455.60	17.78	0.00	437.82	0.24 (J)	ND	1.5	ND	1.74 (J)	ND	ND	ND	ND	ND
	5/15/2012	455.60	11.49	0.00	444.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	283
	8/28/2012	455.60	18.91	0.00	436.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	924
	12/18/2012	455.60	18.58	0.00	437.02	6.5	37.2	419	108	570.7	ND	18.5 (J)	2,510	1,120	154
	3/19/2013	455.60	17.99	0.00	437.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	350
	6/18/2013	455.60	17.77	0.00	437.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/2013	455.60	19.01	0.00	436.59	3.0	16.1	85.9	16.2	121.2	ND	55.8	2,420	367	34.3
	11/22/2013	455.60	19.21	0.00	436.39	9.9	32.3	38.4	23.7	104.3	1.3	52.9	4,110	1,400	7.0
	3/20/2014	455.60	15.71	0.00	439.89	2.0	5.2	ND	5.8	13.0	1.2	71.3	1,870	408	ND
	6/18/2014	455.60	18.24	0.00	437.36	87.4	59.2	9.4	24.8	180.8	106	1,770	3,850	***	1.5 (J)
	6/30/2014	455.60	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	2,160	NS
	9/23/2014	455.10	20.69	0.00	434.41	7.3	212	541	567	1,327.3	269	1,150	5,740	2,560	159
	12/23/2014	455.10	21.37	0.00	433.73	88.0	83.0	1,290	1,480	2,941.0	50.6	771	12,200	3,090	490
	3/24/2015	455.10	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/22/2015	455.10	20.38	0.00	434.72	178	34.1	661	409	1,282.1	17.3	3,200	6,130	4,540	392
9/21/2015	455.10	20.57	0.00	434.53	153	44.3	623	394	1,214.3	16.9	1,730	10,300	3,740	430	
12/9/2015	455.10	21.08	0.00	434.02	7.8	1.4	34.8	10.1	54.1	ND	250	650	684	28.3	
3/8/2016	455.10	20.29	0.00	434.81	103	9.4	223	49.0	384.4	7.5	553	2,130	874	143	
6/7/2016	455.10	20.28	0.00	434.82	155	27.1	744	139	1,065.1	6.2	3,030	6,540	3,150	436	
9/13/2016	455.10	20.87	0.00	434.23	131	23.1	763	150	1,067.1	5.8	2,320	6,520	2,750	422	
11/21/2016	455.10	21.56	0.00	433.54	108	25.9	727	192	1,052.9	12.9	2,480	6,730	3,520	439	
3/9/2017	455.10	22.05	0.00	433.05	23.7	5.5	142	42.8	214.0	3.4	ND	2,450	1,090	144	
6/7/2017	455.10	21.18	0.00	433.92	14.6	2.8	50.7	7.8	75.9	2.3	174	1,590	1,050	34.3	
9/6/2017	455.10	20.94	0.00	434.16	44.1	5.8	141	24.5	215.4	ND	1,230	1,980	1,570	107	
11/1/2017	455.10	21.41	0.00	433.69	69.8	7.6	146	42.1	266	6.1	1,380	3,050	1,900	118	
3/6/2018	455.10	21.75	0.00	433.35	11.3	0.71 (J)	12.3	4.4	28.7 (J)	ND	9.4 (J)	1,090	1,070	20.6	
6/20/2018	455.10	19.73	0.00	435.37	18.2	ND	0.77 (J)	ND	18.97 (J)	2.5	83.4	124 (J)	112	ND (<1.1)	
9/5/2018	455.10	19.34	0.00	435.76	7.3	ND	2.7	ND	10.0	ND	40.3	226	110	2.8 (J)	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

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Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-7	3/28/1991	452.69	15.10	0.00	437.59	7,950	6,100	2,700	8,550	25,300	650	NS	NS	NS	NS
	6/26/1991	452.69	16.12	0.00	436.57	2,100	2,400	800	2,300	7,600	1,000	NS	NS	NS	NS
Casing: 0 to 8 feet	9/1/1992	452.69	17.22	0.00	435.47	1,470	3,670	1,350	5,350	11,840	1,200	NS	NS	NS	NS
	1/7/1993	452.69	26.25	0.00	426.44	1,550	5,750	1,100	6,250	14,650	600	NS	NS	NS	NS
	4/12/1993	452.69	NM	NM	NM	200	2,550	350	3,600	6,700	ND	NS	NS	NS	NS
Screen: 8 to 33 feet	7/15/1993	452.69	NM	NM	NM	2,150	8,550	1,200	8,950	20,850	1,000	NS	NS	NS	NS
	10/19/1993	452.69	NM	NM	NM	2,400	15,700	1,300	9,000	28,400	870	NS	NS	NS	NS
	1/26/1994	452.69	NM	NM	NM	1,100	6,200	950	5,650	13,900	ND	NS	NS	NS	NS
	4/19/1994	452.69	NM	NM	NM	11	68	11	86	176	64.4	NS	NS	NS	NS
	8/2/1994	452.69	NM	NM	NM	280	1,160	260	2,280	3,980	180	NS	NS	NS	NS
	11/22/1994	452.69	NM	NM	NM	1,530	1,780	1,380	5,400	10,090	338	NS	NS	NS	NS
	3/3/1995	452.69	NM	NM	NM	1,690	9,600	1,930	11,000	24,220	913	NS	NS	NS	NS
	5/9/1995	452.69	NM	NM	NM	448	2,330	294	3,560	6,632	<200	NS	NS	NS	NS
	8/15/1995	452.69	NM	NM	NM	370	1,790	420	3,430	6,010	<200	NS	NS	NS	NS
	11/28/1995	452.69	NM	NM	NM	394	3,440	646	4,230	8,710	ND	NS	NS	NS	NS
	2/13/1996	452.69	14.75	0.00	437.94	104	164	106	259	633	ND	NS	NS	NS	NS
	5/15/1996	452.69	15.40	0.00	437.29	132	429	101	436	1,098	33	NS	NS	NS	NS
	8/28/1996	452.69	15.27	0.00	437.42	422	3,460	480	5,540	9,902	78	NS	NS	NS	NS
	11/26/1996	452.69	15.61	0.00	437.08	96	340	ND	875	1,311	ND	NS	NS	NS	NS
	2/27/1997	452.69	14.69	0.00	438.00	56	225	1,420	3,830	5,531	109	NS	NS	NS	NS
	5/30/1997	452.69	15.10	0.00	437.59	69	293	1,600	4,900	6,862	149	NS	NS	NS	NS
	8/21/1997	452.69	16.53	0.00	436.16	ND	349	1,280	5,730	7,359	ND	NS	NS	NS	NS
11/25/1997	452.69	16.83	0.00	436.06	ND	175	913	4,160	5,248	57	NS	NS	NS	NS	
2/19/1998	452.69	15.23	0.00	437.46	ND	165	381	2,380	2,906	ND	NS	NS	NS	NS	
5/28/1998	452.69	14.36	0.00	438.33	100	364	1,270	5,070	6,804	147	NS	NS	NS	NS	
8/18/1998	452.69	15.61	0.00	437.08	120	313	1,300	5,540	7,273	ND	NS	NS	NS	NS	
11/21/1998	452.69	16.86	0.00	435.83	<100	195	1,280	6,340	7,815	129	NS	NS	NS	NS	
2/17/1999	452.69	17.02	0.00	435.67	<50	409	1,510	6,230	8,149	136	NS	NS	NS	NS	
5/24/1999	452.69	16.20	0.00	436.49	37	229	1,010	3,230	4,506	211	NS	NS	NS	NS	
8/26/1999	452.69	17.18	0.00	435.51	<50	110	920	3,900	4,930	170	NS	NS	NS	NS	
11/18/1999	452.69	16.02	0.00	436.67	<20	130	870	3,300	4,300	1,400	NS	NS	NS	NS	
12/29/1999	452.69	NM	NM	NM	9	140	780	3,200	4,129	240	NS	NS	NS	NS	
2/23/2000	452.69	15.43	0.00	437.26	<20	320	990	3,800	5,110	370	NS	NS	NS	NS	
5/17/2000	452.69	14.47	0.00	438.22	ND	180	1,100	3,900	5,180	1,300	NS	NS	NS	NS	
8/3/2000	452.69	14.92	0.00	437.77	84	260	1,000	4,200	5,544	2,100	NS	NS	NS	NS	
11/20/2000	452.69	16.65	0.00	436.04	ND	140	830	3,180	4,150	150	NS	NS	NS	NS	
2/20/2001	452.69	17.86	0.00	434.83	70	240	850	2,540	3,700	130	NS	NS	NS	NS	
5/25/2001	452.69	15.05	0.00	437.64	ND	250	1,300	3,600	5,150	ND	NS	NS	NS	NS	
8/6/2001	452.69	16.70	0.00	435.99	11	280	1,400	4,900	6,591	210	NS	NS	NS	NS	
11/7/2001	452.69	17.64	0.00	435.05	ND	64	810	2,284	3,158	98	NS	NS	NS	NS	
2/22/2002	452.69	17.92	0.00	434.77	11	75	660	2,080	2,826	54	NS	NS	NS	NS	
5/16/2002	452.69	15.80	0.00	436.89	ND	140	690	2,110	2,940	51	NS	NS	NS	NS	
8/6/2002	452.69	18.05	0.00	434.64	60	93	800	2,180	3,133	140	NS	NS	NS	NS	
11/13/2002	452.69	17.23	0.00	435.46	ND	ND	760	1,746	2,506	ND	NS	NS	NS	NS	
3/5/2003	452.69	13.94	0.00	438.75	ND	16	100	301	417	5.1	NS	NS	NS	NS	
5/13/2003	452.69	15.10	0.00	437.59	10	10	110	198	328	22	NS	NS	NS	NS	
9/25/2003	452.69	NM	NM	NM	25.6	24.9	343	273	667	16.1	NS	NS	NS	NS	
11/12/2003	452.69	15.36	0.00	437.33	24.5	91.7	907	1,400	2,423	10	NS	NS	NS	NS	
2/2/2004	452.69	14.40	0.00	438.29	22.6	76.4	605	1,390	2,094	7.0	NS	NS	NS	NS	
5/14/2004	452.69	13.97	0.00	438.72	10.3	28.8	499	595	1,133	5.8	NS	NS	NS	NS	
8/19/2004	452.69	14.67	0.00	438.02	18.8	82.8	763	2,720	3,585	11.3	NS	NS	NS	NS	
2/23/2005	452.69	16.39	0.00	436.30	3.5 (J)	80	1,080	4,320	5,484 (J)	7.6 (J)	NS	NS	NS	NS	
5/19/2005	452.69	16.25	0.00	436.44	2.1 (J)	61.9	740	2,580	3,384 (J)	3.7 (J)	NS	NS	NS	NS	
8/24/2005	452.69	15.89	0.00	436.80	<10	56.9	1,020	3,770	4,847	8.4 (J)	NS	NS	NS	NS	
11/8/2005	452.69	15.54	0.00	437.15	1.6 (J)	18.1	472	913	1,405 (J)	9.1	NS	NS	NS	NS	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
MW-7 (continued)	2/10/2006	452.69	14.54	0.00	438.15	1.2 (J)	22	413	1,390	1,826	5.2	NS	NS	NS	NS
	5/15/2006	452.69	15.50	0.00	437.19	<10	34.4	880	2,690	3,604	22.2	NS	NS	NS	NS
	8/9/2006	452.69	15.41	0.00	437.28	ND	40	911	3,140	4,091	6.1	NS	NS	NS	NS
	10/17/2006	452.69	17.28	0.00	435.41	<10	42.3	1,170	4,340	5,552	10	NS	NS	NS	NS
	4/11/2007	452.69	NG	NG	NG	ND	1.9	57	92	150.9	ND	ND	1,900	ND	NS
	8/24/2007	452.69	16.38	0.00	436.31	1.5	7.2	200	150	359	4.3	ND	1,900	1,300	NS
	12/27/2007	452.69	16.02	0.00	436.67	ND	ND	1.2	2.2	3.4	ND	ND	ND	4,900	NS
	3/27/2008	452.69	16.11	0.00	436.58	ND	ND	14	12.9	26.9	1.0	ND	ND	ND	NS
	6/25/2008	452.69	15.56	0.00	437.13	0.42 (J)	3.1	17.4	39	59.9	ND	ND	1,400	700	NS
	9/24/2008	452.69	16.20	0.00	436.49	1.7	9.7	278	323	612.4	3.4	ND	4,340	976	NS
	12/17/2008	452.69	9.65	0.00	443.04	2.0	17.3	495	911	1,425.3	3.4	ND	8,250	1,160	NS
	3/31/2009	452.69	16.77	0.00	435.92	1.0	ND	ND	ND	1.0	59.8	ND (<25)	ND	1,160	NS
	6/22/2009	452.69	15.50	0.00	437.19	1.2 (J)	7.9	257	285	551.1 (J)	1.6 (J)	ND (<63)	4,810	1,870	NS
	9/25/2009	452.69	15.64	0.00	437.05	1.2 (J)	9.1	528	549	1,087.3 (J)	ND	ND (<50)	9,450	2,330	NS
	12/14/2009	452.69	13.57	0.00	439.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	452.69	NM	NM	NM	0.51 (J)	3.4	98.9	53.7	156.51 (J)	ND	ND (<25)	1,490	531	NS
	3/17/2010	452.69	13.17	0.00	439.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	452.69	NM	NM	NM	ND	ND	43.3	7.4	50.7	ND	ND (<25)	1,160	516	NS
	8/24/2010	453.52	15.73	0.00	437.79	1.8	3	238	58.4	301.2	ND	ND	3,000	567	NS
	8/24/2010	453.52	15.73	0.00	437.79	13	2	127	31.3	173.3	53.1	47.6	2,080	655	7.3
11/11/2011	453.52	16.36	0.00	437.16	1.8	8.7	492	294	796.5	1.8	ND	7,180	2,360	75.4	
6/23/2011	453.52	15.20	0.00	438.32	0.76 (J)	3.8	114	19.9	138.46 (J)	0.75 (J)	ND	1,640	772	12.6	
9/29/2011	453.52	14.99	0.00	438.53	1.5	6.7	330	200	538.2	1.7	18.8 (J)	3,060	2,620	48.0	
12/21/2012	453.52	14.86	0.00	438.66	3.7	2.8	13.6	3.0	23.1	6.7	276	452	422	32.9	
3/21/2012	453.52	15.26	0.00	438.26	4.0	3.4	128	10.1	145.5	4.5	198	1,820	1,390	11.9	
5/16/2012	453.52	15.60	0.00	437.92	2.3	3.5	138	55.7	199.5	2.9	126	2,270	1,330	20.5	
8/29/2012	453.52	15.84	0.00	437.68	3.5	9.3	392	354	758.8	3.5	96.3	6,070	1,530	85.7	
12/19/2012	453.52	16.06	0.00	437.46	3.2	8.9	464	424	900.1	9.7	44.3 (J)	8,770	1,760	150.1	
3/20/2013	453.52	14.45	0.00	439.07	1.8	7.8	208	289	506.6	3.7	ND	4,880	1,400	171	
6/19/2013	453.52	15.46	0.00	438.06	1.6	6.1	193	150	350.7	2.4	5.4 (J)	3,980	1,690	80.0	
9/19/2013	453.52	16.49	0.00	437.03	2.4	8.0	386	259	647.4	2.8	ND	6,250	1,520	162.4	
11/22/2013	453.52	16.56	0.00	436.96	2.1	9.0	481	295	787.1	3.8	10.1 (J)	8,920	1,230	197	
3/20/2014	453.52	14.60	0.00	438.92	2.1	3.2	147	20.3	172.6	1.5	ND	2,830	1,560	29.2	
6/18/2014	453.52				Inaccessible - Sampled on 6/24/2014										
***	6/24/2014	453.52	16.89	0.00	436.63	4.8	10.5	396	284	695.3	32.1	256	8,400	***	34.1
***	6/30/2014	453.52	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	1,840	NS
	9/23/2014	452.69	18.44	0.00	434.25	1.3	5.5	350	389	745.8	28.3	125	8,640	232	159
	12/23/2014	452.69	19.02	0.00	433.67	1.4	4.3	200	177	382.7	29.6	90.1	5,990	1,030	91.8
	3/24/2015	452.69	18.67	0.00	434.02	3.6	1.9	97.4	53.4	156.3	80.0	130	3,540	463	56.2
	6/22/2015	452.69	18.29	0.00	434.40	5.0	3.6	117	117	242.6	51.0	145	2,980	1,580	45.7
	9/21/2015	452.69	18.42	0.00	434.27	5.9	2.6	77.0	73.2	158.7	18.0	89.7	3,460	902	27.3
	12/9/2015	452.69	18.81	0.00	433.88	7.3	2.5	63.3	40.4	113.5	18.1	93.2	2,080	714	6.4
	3/8/2016	452.69	18.16	0.00	434.53	8.9	1.6	36.9	11.6	59.0	81.5	138	1,990	785	2.8 (J)
	6/7/2016	452.69	18.19	0.00	434.50	8.3	1.5	32.0	14.4	56.2	25.3	73.8	1,390	904	5.5
	9/13/2016	452.69	18.62	0.00	434.07	8.5	1.5	31.6	15.6	57.2	10.7	73.5	2,600	925	5.0
	11/21/2016	452.69	19.14	0.00	433.55	7.6	1.8	39.0	21.8	70.2	7.4	77.1	2,240	564	7.7
	3/9/2017	452.69	19.63	0.00	433.06	6.9	1.1	27.8	14.0	49.8	9.7	ND	1,720	434	4.5
	6/7/2017	452.69	18.89	0.00	433.80	6.2	0.81(J)	8.5	7.8	23.31 (J)	43.2	94.7	1,130	585	ND (<1.0)
	9/6/2017	452.69	18.78	0.00	433.91	6.6	2.2	42.6	35.4	86.8	8.2	64.6	1,630	665	6.7
	11/1/2017	452.69	19.07	0.00	433.62	8.3	3.3	63.2	56.2	131.0	9.2	96.2	1,560	893	10.5
	3/6/2018	452.69	19.31	0.00	433.38	3.3	0.56 (J)	3.3	2.2	9.36 (J)	21.0	72.8	826	517	ND (<1.1)
	6/20/2018	452.69	17.74	0.00	434.95	18.4	3.4	59.1	47.2	128.1	52.7	187	1,810	866	12.0
	9/5/2018	452.69	17.38	0.00	435.31	12.9	2.1	27.8	20.6	63.4	14.2	100	1,410	715	4.6 (J)
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

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 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
OW-1	11/22/2004	NSVD	18.36	0.00	NSVD	74.8	169	919	5,220	6,383	25	NS	NS	NS	NS
	2/23/2005	NSVD	17.93	0.00	NSVD	4.4	9.4	168	621	803	19.9	NS	NS	NS	NS
Casing: 0 to 9 feet	5/19/2005	NSVD	17.44	0.00	NSVD	14.5	46	343	1,130	1,534	14.3	NS	NS	NS	NS
	8/24/2005	NSVD	18.44	0.00	NSVD	43.1	163	831	3,890	4,927	5.9	NS	NS	NS	NS
Screen: 9 to 34 feet	11/8/2005	NSVD	18.57	0.00	NSVD	4.0	17.8	344	1,050	1,416	7.7	NS	NS	NS	NS
	2/10/2006	NSVD	17.35	0.00	NSVD	1.8	11.2	77.3	328	418	2.2	NS	NS	NS	NS
	5/15/2006	NSVD	17.99	0.00	NSVD	4.0 (J)	53.4	414	1,690	2,161	6.4	NS	NS	NS	NS
	8/9/2006	NSVD	18.15	0.00	NSVD	5.8	68.4	432	1,550	2,056	10.8	NS	NS	NS	NS
	10/17/2006	NSVD	18.50	0.00	NSVD	1.2 (J)	18.6	268	712	1,000	10.2	NS	NS	NS	NS
	4/11/2007	NSVD	17.68	0.00	NSVD	ND	26	320	1,400	1,746	8.7	ND	14,000	3,000	NS
	8/24/2007	NSVD	19.14	0.00	NSVD	ND	11	210	440	661	4.2	ND	6,900	2,400	NS
	12/27/2007	NSVD	18.98	0.00	NSVD	ND	5.8	120	3.1	128.9	3.3	13	9,600	2,400	NS
	3/27/2008	NSVD	18.24	0.00	NSVD	ND	4.2	69	382.5	455.7	5.0	7.6	9,200	2,000	NS
	6/25/2008	NSVD	NM	NM	NSVD	ND	8.7	163	347	518.7	ND	ND	8,900	1,400	NS
	9/24/2008	NSVD	16.30	0.00	NSVD	0.67 (J)	11.6	170	372	554.3	1.2	13.3 (J)	8,400	1,550	NS
	12/17/2008	NSVD	15.95	0.00	NSVD	0.46 (J)	6.2	96.3	248	351.0	ND	ND	6,020	1,490	NS
	3/31/2009	NSVD	19.19	0.00	NSVD	ND	3.4	31.2	157	191.6	1.9	ND (<25)	8,110	1,820	NS
	6/22/2009	NSVD	17.74	0.00	NSVD	0.60 (J)	7.5	111	352	471.1 (J)	1.0	ND (<25)	7,200	1,710	NS
	9/25/2009	NSVD	18.10	0.00	NSVD	ND	3.0	73.0	168	244.0	ND	ND (<50)	5,920	2,960	NS
	12/14/2009	NSVD	16.51	0.00	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	NSVD	NM	NM	NM	0.30 (J)	6.3	209	934	1,149.6 (J)	0.44 (J)	ND (<25)	8,690	1,440	NS
	3/17/2010	NSVD	15.70	0.00	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	NSVD	NM	NM	NM	ND	22.1	98.5	378	498.6	ND	ND (<25)	6,880	2,030	NS
23 ft. sample	8/25/2010	455.81	18.27	0.00	437.54	0.71 (J)	14.7	267	376	658.41 (J)	ND	ND	8,780	2,290	NS
28 ft. sample	8/25/2010	455.81	18.27	0.00	437.54	0.88 (J)	13.4	239	384	637.28 (J)	ND	ND	8,290	2,500	ND
	1/10/2011	455.81	18.99	0.00	436.82	0.81 (J)	13.1	143	376	532.91 (J)	ND	ND	7,960	2,800	138
	6/22/2011	455.81	18.73	0.00	437.08	ND	0.20 (J)	4.3	9.1	13.6 (J)	ND	ND	353	1,110	4.1 (J)
	9/28/2011	455.81	17.56	0.00	438.25	ND	2.0	41.0	110	153.0	ND	ND	3,920	268	53.9
	12/20/2012	455.81	15.49	0.00	440.32	0.53 (J)	2.2	33.9	124	160.63 (J)	ND	ND	4,430	465	61.8
	3/20/2012	455.81	17.84	0.00	437.97	0.41 (J)	2.5	24.2	107	134.11 (J)	0.87 (J)	ND	6,030	1,760	74.4
	5/15/2012	455.81	20.16	0.00	435.65	0.65 (J)	1.1	11.8	57.4	70.95 (J)	ND	ND	2,630	514	29.4
	8/28/2012	455.81	18.31	0.00	437.50	0.54 (J)	2.8	54.3	95.0	152.64 (J)	ND	ND	5,060	1,840	70.0
	12/18/2012	455.81	18.64	0.00	437.17	0.90 (J)	3.6	77.8	145	227.30 (J)	0.42 (J)	ND	4,890	1,280	58.8
	3/19/2013	455.81	18.05	0.00	437.76	0.80 (J)	2.0	21.5	84.5	108.80 (J)	0.74 (J)	ND	3,670	1,280	41.3
	6/18/2013	455.81	17.91	0.00	437.90	ND	1.5	21.8	48.1	71.4	ND	ND	4,330	2,190	56.7
	9/19/2013	455.81	19.03	0.00	436.78	ND	2.5	53.7	68.5	124.7	ND	ND	3,910	1,200	65.5
	11/22/2013	455.81	19.13	0.00	436.68	0.38 (J)	5.1	116	92.4	213.88 (J)	ND	ND	5,810	1,620	98.6
	3/20/2014	455.81	17.24	0.00	438.57	0.33 (J)	1.7	27.4	35.5	64.93 (J)	0.52 (J)	ND	4,100	1,240	45.3
***	6/18/2014	455.81	18.82	0.00	436.99	2.2	3.5	47.6	65.1	118.4	7.9	ND	6,150	***	66.4
***	6/30/2014	455.81	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	2,020	NS
	9/23/2014	455.31	20.88	0.00	434.43	0.43 (J)	1.6	53.3	135	190.33 (J)	1.5	56.7	7,780	1,170	72.0
	12/23/2014	455.31	21.28	0.00	434.03	0.81	1.4	13.1	34.2	49.51	1.5	33.9	4,310	1,280	23.6
	3/24/2015	455.31	21.08	0.00	434.23	0.47 (J)	0.64 (J)	2.3	8.9	12.31 (J)	ND	ND	3,180	787	14.6
	6/22/2015	455.31	20.58	0.00	434.73	1.4	0.32 (J)	1.0	1.8	4.52 (J)	6.9	29.5	1,370	918	3.4 (J)
	9/21/2015	455.31	20.73	0.00	434.58	1.7	0.27 (J)	1.4	1.8	5.17 (J)	5.3	24.5	982	515	1.3 (J)
	12/9/2015	455.31	21.23	0.00	434.08	2.3	0.23 (J)	0.93 (J)	1.3	4.76 (J)	6.9	19.5	1,040	459	0.76 (J)
	3/8/2016	455.31	20.54	0.00	434.77	1.9	ND	0.36 (J)	ND	2.26 (J)	6.1	ND	1,100	373	0.33 (J)
	6/7/2016	455.31	20.58	0.00	434.73	2.5	0.33 (J)	2.5	3.0	8.33 (J)	6.6	14.0	934	370	ND
	9/13/2016	455.31	21.03	0.00	434.28	0.99	ND	ND	ND	0.99	3.3	10.7	583	209	ND
	11/21/2016	455.31	21.82	0.00	433.49	1.2	ND	0.56 (J)	ND	1.76 (J)	4.2	11.4	486	344	ND
	3/9/2017	455.31	22.04	0.00	433.27	1.5	ND	0.34 (J)	0.58 (J)	2.42 (J)	7.9	ND	845	298	ND (<1.0)
	6/7/2017	455.31	21.22	0.00	434.09	1.6	ND	0.47 (J)	0.69 (J)	2.76 (J)	7.3	11.5	572	356	ND (<1.0)
	9/6/2017	455.31	21.27	0.00	434.04	1.3	ND	0.37 (J)	0.45 (J)	2.12 (J)	4.7	12.8	583	348	ND (<1.1)
	11/1/2017	455.31	21.53	0.00	433.78	1.4	ND	0.49 (J)	0.32 (J)	2.2 (J)	6.1	11.3	439	336	ND (<1.1)
	3/6/2018	455.31	21.77	0.00	433.54	1.5	ND	1.3	8.6	11.4	7.5	19.7	962	511	ND (<1.1)
	6/20/2018	455.31	20.03	0.00	435.28	1.7	0.45 (J)	2.8	16.1	21.1 (J)	6.2	14.2	746	469	ND (<1.1)
	9/5/2018	455.31	19.61	0.00	435.70	2.2	ND	7.8	8.3	18.3	5.2	21.3	816	441	1.2 (J)
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-1 Casing: 0 to 2 feet Screen: 2 to 14 feet	6/13/2006	433.72	3.00	0.00	430.72	21.7	30.1	559	373	984	15.6	NS	NS	NS	NS
	7/17/2006	433.72	3.95	0.00	429.77	5.3	61.4	543	1,390	2,000	ND	NS	NS	NS	NS
	4/11/2007	433.72	4.89	0.00	428.83	5.5	140	1,200	3,300	4,646	ND	ND	37,000	ND	NS
	8/24/2007	433.72	5.94	0.00	427.78	4.6	60	660	850	1,574.6	ND	ND	12,000	1,500	NS
	12/27/2007	433.72	5.29	0.00	428.43	4.8	32	500	30	566.8	ND	ND	14,000	1,500	NS
	3/27/2008	433.72	5.19	0.00	428.53	5.6	73	610	1,510	2,198.6	1.2	ND	9,600	1,000	NS
	6/25/2008	433.72	1.68	0.00	432.04	4.0	92.7	648	1,700	2,444.7	ND	ND	14,300	1,980	NS
	9/24/2008	433.72	2.55	0.00	431.17	2.3	38.1	477	912	1,429.4	ND	ND	11,200	1,010	NS
	12/17/2008	433.72	2.30	0.00	431.42	2.0	38.5	346	1,000	1,386.5	ND	ND	10,700	731	NS
	3/31/2009	433.72	2.78	0.00	430.94	7.7	20.2	112	290	429.9	6.1	ND (<25)	7,790	567	NS
	6/22/2009	433.72	1.13	0.00	432.59	1.9 (J)	54.4	557	1,470	2,083.3 (J)	ND	(<130)	11,600	1,810	NS
	9/25/2009	433.72	0.20	0.00	433.52	2.0	28.1	325	701	1,056.1	ND	ND (<50)	8,540	1,540	NS
	12/14/2009	433.72	0.00	0.00	433.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/2009	433.72	NM	NM	NM	ND	40.7	401	1,490	1,931.7	ND	(<130)	10,700	1,760	NS
	3/17/2010	433.72	0.01	0.00	433.71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/18/2010	433.72	NM	NM	NM	ND	60.4	407	1,060	1,527.4	ND	(<130)	10,500	1,080	NS
	8/25/2010	434.11	1.39	0.00	432.72	2.3 (J)	81.1	635	1,250	1,968.4	ND	131	5,350	796	234
	11/2/2011	434.11	1.51	0.00	432.60	1.8	40.6	464	1,620	2,126.4	ND	ND	11,500	2,080	168
	6/22/2011	434.11	1.34	0.00	432.77	0.74 (J)	18.0	181	392	591.74 (J)	ND	ND	4,200	1,530	59.3
	9/28/2011	434.11	0.03	0.00	434.08	1.6	31.3	463	685	1,180.9	ND	ND	7,580	ND (<110)	168
	12/20/2012	434.11	1.01	0.00	433.10	1.4 (J)	52.0	792	1,530	2,375.4 (J)	ND	ND	12,600	1,161	285
	3/20/2012	434.11	0.90	0.00	433.21	0.51 (J)	11.4	145	298	454.91 (J)	ND	ND	1,690	1,140	58.6
	5/15/2012	434.11	0.04	0.00	434.07	3.5	7.3	14.1	73.8	98.7	5.8	21.8 (J)	2,420	1,650	83.3
	8/28/2012	434.11	1.56	0.00	432.55	1.9 (J)	22.0	240	107	370.9 (J)	ND	ND	5,040	1,860	156
	12/18/2012	434.11	0.50	0.00	433.61	2.0	23.4	178	143	346.4	ND	ND	3,790	616	15.1
	3/19/2013	434.11	0.03	0.00	434.08	1.3	54.4	444	645	1,144.7	ND	ND	6,810	807	184
	6/18/2013	434.11	0.89	0.00	433.22	0.90 (J)	21.3	231	164	417.2 (J)	ND	ND	3,770	1,280	104
	9/19/2013	434.11	1.49	0.00	432.62	2.2	27.3	428	173	630.5	ND	ND	5,960	1,560	200
	11/22/2013	434.11	0.50	0.00	433.61	2.2	23.0	377	89.5	491.7	ND	ND	8,760	1,130	186
	3/20/2014	434.11	0.01	0.00	434.10	1.4	18.6	234	69.5	323.5	ND	ND	3,210	659	57.4
6/18/2014	434.11	3.62	0.00	430.49	3.3	19.2	96.6	104	223.1	ND	ND	4,710	***	132	
6/30/2014	434.11	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	1,040	NS	
9/23/2014	433.64	5.33	0.00	428.31	0.72	1.4	0.98 (J)	2.7	5.8 (J)	ND	ND	775	269	2.3 (J)	
12/23/2014	433.64	4.19	0.00	429.45	0.31 (J)	0.33 (J)	2.5	0.61 (J)	3.75 (J)	ND	ND	277	ND (<80)	ND	
3/24/2015	433.64	3.02	0.00	430.62	ND	ND	2.0	0.57 (J)	2.57 (J)	ND	ND	ND	ND (<77)	0.97 (J)	
6/22/2015	433.64	3.04	0.00	430.60	ND	ND	0.39 (J)	ND	0.39 (J)	ND	ND	ND	108	ND	
9/21/2015	433.64	4.94	0.00	428.70	0.60	ND	0.61 (J)	ND	1.21 (J)	ND	ND	205	144	0.81 (J)	
12/9/2015	433.64	4.37	0.00	429.27	ND	ND	1.7	ND	1.7	ND	ND	ND	160	ND	
3/8/2016	433.64	3.31	0.00	430.33	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<64)	ND	
6/7/2016	433.64	3.90	0.00	429.74	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<64)	ND	
9/13/2016	433.64	5.47	0.00	428.17	0.86	ND	ND	ND	0.86	ND	ND	157 (J)	112	ND	
11/21/2016	433.64	6.21	0.00	427.43	0.35 (J)	ND	ND	ND	0.35 (J)	ND	ND	ND (<100)	ND (<64)	ND	
3/9/2017	433.64	5.40	0.00	428.24	0.41 (J)	ND	13.1	0.46 (J)	13.97 (J)	ND	ND	184	ND (<64)	ND (<1.0)	
6/7/2017	433.64	4.25	0.00	429.39	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)	
9/6/2017	433.64	4.44	0.00	429.20	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)	
11/1/2017	433.64	5.37	0.00	428.27	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)	
3/6/2018	433.64	4.16	0.00	429.48	ND	ND	0.86 (J)	ND	0.86 (J)	ND	ND	ND (<100)	90.6	ND (<1.1)	
6/20/2018	433.64	3.08	0.00	430.56	0.55	ND	ND	ND	0.55	ND	ND	ND (<100)	ND (<83)	ND (<1.1)	
9/5/2018	433.64	3.35	0.00	430.29	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<53)	ND (<0.98)	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

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Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)	
YMW-2 Casing: 0 to 2 feet Screen: 2 to 14 feet	6/13/2006	431.42	0.89	0.00	430.53	3.3	47.6	211	656	917.9	2.3	NS	NS	NS	NS	
	7/17/2006	431.42	1.25	0.00	430.17	14.9	25.6	533	285	858.5	10.7	NS	NS	NS	NS	
	4/11/2007	431.42	1.60	0.00	429.82	15	24	630	670	1,339	14	17	1,400	3,000	NS	
	8/24/2007	431.42	2.61	0.00	428.81	16	59	250	270	595	14	ND	4,800	3,200	NS	
	12/27/2007	431.42	2.48	0.00	428.94	13	21	370	14	418	9.9	17	13,000	2,300	NS	
	3/27/2008	431.42	1.06	0.00	430.36	8.2	21	260	395	684.2	7.7	ND	7,700	1,400	NS	
	6/25/2008	431.42	1.00	0.00	430.42	11.5	38.5	66.3	163	279.3	10.5	ND	6,010	1,550	NS	
	9/24/2008	431.42	1.15	0.00	430.27	13.5	45.7	125	215	399.2	9	ND	7,710	2,000	NS	
	12/17/2008	431.42	1.00	0.00	430.42	1.3	2.4	22.7	33.9	60.3	1.1	ND	920	ND	NS	
	3/31/2009	431.42	1.66	0.00	429.76	8.1	23.2	164	357	552.3	5.8	ND (<25)	7,750	1,030	NS	
	6/22/2009	431.42	0.60	0.00	430.82	6.6	14.6	43.8	93.8	158.8	4.1	ND (<25)	3,960	977	NS	
	9/25/2009	431.42	0.30	0.00	431.12	9.1	25.8	73.0	178	285.9	6.5	ND (<25)	5,290	3,070	NS	
	12/14/2009	431.42	0.10	0.00	431.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/2009	431.42	NM	NM	NM	4.8	12.0	117	176	309.8	2.7	ND (<25)	4,560	534	NS	
	3/17/2010	431.42	0.74	0.00	430.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/18/2010	431.42	NM	NM	NM	4.9	17.0	115	187	323.9	3.8	ND (<25)	3,670	549	NS	
	8/25/2010	431.34	0.90	0.00	430.44	6.9	25.4	63.8	118	214.1	5.3	ND	5,820	1,580	239	
	11/11/2011	431.34	1.39	0.00	429.95	7.0	23.6	199	251	480.6	4.8	ND	7,190	1,950	215	
	6/23/2011	431.34	0.87	0.00	430.47	1.8	3.0	2.1	7.8	14.7	5.5	ND	2,140	649	17.8	
	9/29/2011	431.34	0.08	0.00	431.26	6.9	19.6	29.0	138	193.5	9.4	31.5	3,010	1,140	150	
	12/21/2012	431.34	0.92	0.00	430.42	7.2	14.9	98.0	194	314.1	8.6	ND	5,510	1,470	164	
	3/21/2012	431.34	1.18	0.00	430.16	4.1	8.6	38.1	90.5	141.3	6.5	27.3	3,800	859	86.2	
	5/16/2012	431.34	1.47	0.00	429.87	1.0 (J)	28.6	450	551	1,030.6 (J)	ND	ND	8,100	1,820	247	
	8/29/2012	431.34	0.59	0.00	430.75	4.7	15.2	25.4	135	180.3	4.7	39.0	4,490	1,990	157 (E)	
	12/19/2012	431.34	1.03	0.00	430.31	4.5	19.1	77.9	229	330.5	3.1	ND	6,000	1,300	148	
	3/20/2013	431.34	1.00	0.00	430.34	2.9	12.4	55.1	133	203.4	5.0	ND	3,550	582	96.5	
	6/19/2013	431.34	0.58	0.00	430.76	2.2	7.9	6.2	85.8	102.1	4.6	ND	3,190	612	61.1	
	9/19/2013	431.34	0.08	0.00	431.26	3.2	18.9	23.3	158	203.4	2.7	ND	3,770	1,250	102	
	11/22/2013	431.34	0.50	0.00	430.84	0.98 (J)	4.1	12.3	67.9	85.28 (J)	1.4	ND	2,180	747	34.3	
	3/20/2014	431.34	0.00	0.00	431.34	4.5	7.6	124	178	314.1	4.7	ND	4,340	934	76.6	
	6/18/2014	431.34	1.23	0.00	430.11	0.89	0.43 (J)	9.4	24.6	35.32 (J)	ND	ND	729	***	2.2 (J)	
	6/30/2014	431.34	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	183	NS
	9/23/2014	431.37	2.51	0.00	428.86	3.4	ND	ND	ND	3.4	13.4	77.3	759	313	ND	
	12/23/2014	431.37	2.64	0.00	428.73	2.7	ND	ND	ND	2.7	18.7	103	740	310	ND	
	3/24/2015	431.37	2.78	0.00	428.59	3.0	0.27 (J)	ND	ND	3.27 (J)	22.6	92.9	671	309	ND	
	6/22/2015	431.37	2.51	0.00	428.86	2.4	ND	ND	ND	2.4	12.7	87.7	336	315	0.41 (J)	
	9/21/2015	431.37	2.58	0.00	428.79	4.0	ND	ND	ND	4.0	18.2	150	391	320	ND	
	12/9/2015	431.37	3.94	0.00	427.43	6.8	1.6	0.96 (J)	5.7	15.06 (J)	16.5	202	671	345	1.6 (J)	
	3/8/2016	431.37	2.97	0.00	428.40	2.2	ND	ND	ND	2.2	19.6	96.2	364	ND (<64)	ND	
	6/7/2016	431.37	2.84	0.00	428.53	5.2	ND	ND	ND	5.2	14.3	99.4	222	ND (<64)	ND	
9/13/2016	431.37	2.44	0.00	428.93	3.3	ND	ND	ND	3.3	11.6	135	304	489	ND		
11/21/2016	431.37	2.94	0.00	428.43	5.8	ND	ND	ND	5.8	ND	185	645	260	ND		
3/9/2017	431.37	2.94	0.00	428.43	5.8	ND	0.51 (J)	0.45 (J)	6.76 (J)	7.9	185	727	ND (<64)	ND (<1.0)		
6/7/2017	431.37	3.10	0.00	428.27	1.1	ND	ND	ND	1.1	11.5	238	376	318	ND (<1.0)		
9/6/2017	431.37	2.65	0.00	428.72	ND	ND	ND	ND	ND	10.7	280	334	358	ND (<1.1)		
11/1/2017	431.37	2.67	0.00	428.70	ND	ND	ND	ND	ND	ND	338	374	420	ND (<1.1)		
3/6/2018	431.37	2.85	0.00	428.52	0.53	ND	ND	ND	0.53	5.8	200	514	308	ND (<1.1)		
6/20/2018	431.37	2.58	0.00	428.79	ND	ND	ND	ND	ND	20.6	189	150 (J)	162	ND (<1.1)		
9/5/2018	431.37	2.51	0.00	428.86	ND	ND	ND	ND	ND	22.3	184	144 (J)	151	ND (<0.98)		
YMW-3 Casing: 0 to 4.5 feet Screen: 4.5 to 19.5 feet	9/23/2014	440.39	9.41	0.00	430.98	ND	0.39 (J)	9.0	5.1	14.49 (J)	ND	ND	268	327	1.1 (J)	
	12/23/2014	440.39	9.86	0.00	430.53	ND	ND	ND	ND	ND	ND	ND	ND	ND (<80)	ND	
	3/24/2015	440.39	8.17	0.00	432.22	ND	ND	ND	ND	ND	ND	ND	ND	ND (<64)	ND	
	6/22/2015	440.39	8.54	0.00	431.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	9/21/2015	440.39	9.21	0.00	431.18	ND	ND	ND	ND	ND	ND	ND	ND	ND (<58)	ND	
	12/9/2015	440.39	8.83	0.00	431.56	ND	ND	ND	ND	ND	ND	ND	ND	231	ND	
	3/8/2016	440.39	8.63	0.00	431.76	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<64)	ND	
	6/7/2016	440.39	8.86	0.00	431.53	ND	ND	ND	ND	ND	ND	ND	ND (<55)	ND (<64)	ND	
	9/13/2016	440.39	9.54	0.00	430.85	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND	
	11/21/2016	440.39	10.44	0.00	429.95	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND	
	3/9/2017	440.39	9.55	0.00	430.84	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)	
	6/7/2017	440.39	8.82	0.00	431.57	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)	
	9/6/2017	440.39	8.84	0.00	431.55	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)	
	11/1/2017	440.39	9.34	0.00	431.05	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)	
3/6/2018	440.39	7.97	0.00	432.42	ND	ND	ND	ND	ND	ND	13.3	ND (<100)	ND (<83)	ND (<1.1)		
6/20/2018	440.39	8.27	0.00	432.12	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)		
9/5/2018	440.39	8.48	0.00	431.91	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<0.98)		
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7	

Table 1
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 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)
YMW-4 Casing: 0 to 2 feet Screen: 2 to 17 feet	9/23/2014	433.72	4.71	0.00	429.01	6.1	9.2	94.0	192	301.3	4.3	ND	3,780	1,050	45.0
	12/23/2014	433.72	4.31	0.00	429.41	5.7	14.2	44.7	219	283.6	5.9	16.6	4,240	612	57.3
	3/24/2015	433.72	4.06	0.00	429.66	4.0	21.6	36.6	434	496.2	10.6	53.8	4,470	1,190	73.1
	6/22/2015	433.72	3.96	0.00	429.76	5.6	21.6	36.3	376	439.5	24.5	114	4,280	2,460	124
	9/21/2015	433.72	4.45	0.00	429.27	7.8	17.2	33.2	289	347.2	38.9	163	5,480	1,560	138
	12/9/2015	433.72	4.34	0.00	429.38	9.2	13.7	31.9	252	306.8	38.4	251	5,110	1,560	87.8
	3/8/2016	433.72	4.18	0.00	429.54	2.4	3.1	4.4	39.0	48.9	10	68.8	828	414	15.8
	6/7/2016	433.72	4.18	0.00	429.54	13.9	9.5	27.8	116	167.2	32.3	280	4,040	1,790	98.7
	9/13/2016	433.72	4.46	0.00	429.26	18.4	8.7	25.3	108	160.4	24.9	240	3,500	2,490	64.3
	11/21/2016	433.72	4.85	0.00	428.87	18.8	5.2	13.6	59.5	97.1	28.4	247	3,520	299	28.9
	3/9/2017	433.72	4.30	0.00	429.42	19.6	4.8	8.9	47.4	80.7	50.9	ND	2,830	925	32.4
	6/7/2017	433.72	4.26	0.00	429.46	13.4	3.0	7.6	18.7	42.7	21.4	169	1,940	1,300	20.8
	9/6/2017	433.72	4.18	0.00	429.54	0.49 (J)	ND	0.70 (J)	1.6	2.79 (J)	0.46 (J)	7.2 (J)	262	134	ND (<1.1)
	11/1/2017	433.72	4.41	0.00	429.31	20.9	12.9	35.9	286	355.7	17.8	345	3,570	1,730	50.3
	3/6/2018	433.72	4.24	0.00	429.48	6.2	2.2	3.6	29.6	41.6	10.0	144	688	383	4.8 (J)
	6/20/2018	433.72	3.89	0.00	429.83	5.0	ND	0.63 (J)	ND	5.6 (J)	16.6	361	591	623	ND (<1.1)
9/5/2018	433.72	4.01	0.00	429.71	10.4	0.72 (J)	4.2	5.7	21.0 (J)	14.0	355	1,010	813	1.9 (J)	
YMW-5 Casing: 0 to 1 feet Screen: 1 to 16 feet	9/23/2014	430.70	4.42	0.00	426.28	ND	ND	ND	0.63 (J)	0.63 (J)	6.6	ND	294	273	ND
	12/23/2014	430.70	5.52	0.00	425.18	0.25 (J)	ND	ND	ND	0.25 (J)	5.6	ND	ND	ND (<80)	ND
	3/24/2015	430.70	3.05	0.00	427.65	0.65	ND	ND	ND	0.65	7.7	7.0 (J)	ND	ND (<80)	ND
	6/22/2015	430.70	3.05	0.00	427.65	0.92	ND	ND	ND	0.92	6.3	10.3	ND	123	ND
	9/21/2015	430.70	3.52	0.00	427.18	0.54	ND	ND	ND	0.54	9.2	23.5	ND	98.0	ND
	12/9/2015	430.70	3.16	0.00	427.54	0.35 (J)	ND	ND	ND	0.35 (J)	7.4	27.3	ND	ND (<64)	ND
	3/8/2016	430.70	2.99	0.00	427.71	0.38 (J)	ND	ND	ND	0.38 (J)	6.8	19.7	ND (<55)	ND (<64)	ND
	6/7/2016	430.70	3.01	0.00	427.69	0.23 (J)	ND	ND	ND	0.23 (J)	6.8	12.6	ND (<55)	ND (<64)	ND
	9/13/2016	430.70	3.39	0.00	427.31	0.20 (J)	ND	ND	ND	0.20 (J)	6.6	15.4	ND (<100)	ND (<64)	ND
	11/21/2016	430.70	3.74	0.00	426.96	ND	ND	ND	ND	ND	6.2	26.2	ND (<100)	565	ND
	3/9/2017	430.70	3.14	0.00	427.56	0.30 (J)	ND	ND	ND	0.30 (J)	5.7	23.2	ND (<100)	ND (<64)	ND (<100)
	6/7/2017	430.70	3.07	0.00	427.63	0.25 (J)	ND	ND	ND	0.25 (J)	4.5	13.5	ND (<100)	105	ND (<100)
	9/6/2017	430.70	2.98	0.00	427.72	ND	ND	ND	ND	ND	3.6	12.2	ND (<100)	171	ND (<1.1)
	11/1/2017	430.70	3.23	0.00	427.47	ND	ND	ND	ND	ND	5.5	27.9	ND (<100)	109	ND (<1.1)
	3/6/2018	430.70	2.83	0.00	427.87	ND	ND	ND	ND	ND	4.2	27.9	ND (<100)	98.6	ND (<1.1)
	6/20/2018	430.70	2.67	0.00	428.03	ND	ND	ND	ND	ND	3.0	ND	ND (<100)	ND (<83)	ND (<1.1)
9/5/2018	430.70	2.74	0.00	427.96	ND	ND	ND	ND	ND	3.3	ND	ND (<100)	ND (<53)	ND (<0.98)	
YMW-6 Casing: 0 to 3 feet Screen: 3 to 18 feet	9/23/2014	432.68	6.61	0.00	426.07	ND	ND	ND	ND	ND	1.5	26.9	ND	ND (<80)	ND
	12/23/2014	432.68	5.69	0.00	426.99	ND	ND	ND	ND	ND	1.4	24.7	ND	ND (<80)	ND
	3/24/2015	432.68	5.11	0.00	427.57	ND	ND	ND	ND	ND	2.1	44.5	ND	ND (<80)	ND
	6/22/2015	432.68	5.11	0.00	427.57	ND	ND	ND	ND	ND	2.4	65.6	ND	ND	ND
	9/21/2015	432.68	6.11	0.00	426.57	ND	ND	ND	ND	ND	2.9	73.3	ND	76.9	ND
	12/9/2015	432.68	5.56	0.00	427.12	ND	ND	ND	ND	ND	2.9	80.3	ND	ND (<64)	ND
	3/8/2016	432.68	5.10	0.00	427.58	ND	ND	ND	ND	ND	3.3	91.0	ND (<55)	ND (<64)	ND
	6/7/2016	432.68	5.36	0.00	427.32	ND	ND	ND	ND	ND	4.3	109	ND (<55)	ND (<64)	ND
	9/13/2016	432.68	6.38	0.00	426.30	ND	ND	ND	ND	ND	4.3	98.6	ND (<100)	ND (<64)	ND
	11/21/2016	432.68	7.05	0.00	425.63	ND	ND	ND	ND	ND	3.8	85.9	ND (<100)	ND (<64)	ND
	3/9/2017	432.68	6.25	0.00	426.43	ND	ND	ND	ND	ND	4.5	ND	ND (<100)	ND (<64)	ND (<1.0)
	6/7/2017	432.68	5.49	0.00	427.19	ND	ND	ND	ND	ND	4.9	97.3	ND (<100)	ND (<64)	ND (<1.0)
	9/6/2017	432.68	6.25	0.00	426.43	ND	ND	ND	ND	ND	4.0	89.6	ND (<100)	ND (<83)	ND (<1.1)
	11/1/2017	432.68	6.65	0.00	426.03	ND	ND	ND	ND	ND	4.7	83.7	ND (<100)	ND (<83)	ND (<1.1)
	3/6/2018	432.68	5.35	0.00	427.33	ND	ND	ND	ND	ND	5.0	85.6	ND (<100)	ND (<83)	ND (<1.1)
	6/20/2018	432.68	4.89	0.00	427.79	ND	ND	ND	ND	ND	5.5	96.8	ND (<100)	ND (<83)	ND (<1.1)
9/5/2018	432.68	5.05	0.00	427.63	ND	ND	ND	ND	ND	5.3	98.4	ND (<100)	ND (<53)	ND (<0.98)	
YMW-7 Casing: 0 to 18 feet Screen: 18 to 28 feet	9/23/2014	449.40	15.33	0.00	434.07	173	141	428	2,240	2,982	10.0	ND	17,500	1,670	73.6
	12/23/2014	449.40	15.16	0.00	434.24	176	130	690	2,580	3,576	9.1 (J)	ND	23,800	2,250	99.7
	3/24/2015	449.40	15.54	0.00	433.86	142	78.0	261	2,330	2,811	11.4	ND	16,300	2,560	92.8
	6/22/2015	449.40	15.22	0.00	434.18	134	37.4	146	828	1,145.4	9.1	ND	6,820	1,680	39.8
	9/21/2015	449.40	15.32	0.00	434.08	101	18.9	67.9	286	473.8	8.3	17.0	4,970	736	22.1
	12/9/2015	449.40	15.68	0.00	433.72	129	80.2	301	1,140	1,650.2	7.3	ND	14,100	1,630	122
	3/8/2016	449.40	15.13	0.00	434.27	136	52.0	140	688	1,016.0	7.3	17.0 (J)	7,050	1,300	97.7
	6/7/2016	449.40	15.09	0.00	434.31	127	42.3	166	620	955.3	7.6	15.7	7,370	1,320	75.6
	9/13/2016	449.40	15.47	0.00	433.93	118	65.2	296	961	1,440.2	6.9	14.0 (J)	9,010	1,480	103
	11/21/2016	449.40	15.69	0.00	433.71	97.2	68.1	313	1,080	1,558.3	ND	ND	10,300	841	108
	3/9/2017	449.40	16.31	0.00	433.09	45.0	81.7	342	1,450	1,918.7	1.9	ND	12,000	1,290	121
	6/7/2017	449.40	15.24	0.00	434.16	60.0	76.2	303	1,310	1,749.2	2.6 (J)	ND	13,100	2,350	124
	9/6/2017	449.40	15.68	0.00	433.72	57.3	92.3	398	1,470	2,017.6	ND	ND	13,200	1,650	130
	11/1/2017	449.40	15.91	0.00	433.49	48.5	89.6	374	1,550	2,062	ND	ND	13,200	2,330	116
	3/6/2018	449.40	16.12	0.00	433.28	37.9	54.1	267	1,190	1,549	1.4	ND	13,000	2,170	91.5
	6/20/2018	449.40	14.75	0.00	434.65	57.9	23.6	195	473	750	2.7	15.9 (J)	6,530	1,100	63.4
9/5/2018	449.40	14.43	0.00	434.97	64.9	10.1	105	207	387	3.5	12.1	3,810	ND (<53)	39.8	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)	
YMW-8	9/23/2014	446.91	13.63	0.00	433.28	56.4	46.8	638	2,270	3,011.2	50.8	ND	16,100	1,820	182	
	12/23/2014	446.91	13.96	0.00	432.95	61.9	50.5	793	2,570	3,475.4	40.0	ND	17,800	2,450	216	
	Casing: 0 to 7 feet	3/24/2015	446.91	12.91	0.00	434.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/22/2015	446.91	13.44	0.00	433.47	91.5	18.4	255	395	759.9	28.4	17.2	4,330	1,710	75.9	
	Screen: 7 to 22 feet	9/21/2015	446.91	13.85	0.00	433.06	45.7	24.9	533	1,150	1,753.6	31.2	ND	16,600	1,900	145.6
	12/9/2015	446.91	13.94	0.00	432.97	39.5	96.9	631	1,500	2,267.4	24.6	ND	18,400	2,470	169	
	3/8/2016	446.91	13.05	0.00	433.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/7/2016	446.91	13.52	0.00	433.39	72.4	14.6	341	185	613.0	29.1	20.9	4,260	1,020	77.1	
	9/13/2016	446.91	14.03	0.00	432.88	37.0	117	806	1,790	2,750	26.1	30.6 (J)	14,700	3,440	200	
	11/21/2016	446.91	14.39	0.00	432.52	22.9	113	710	2,240	3,085.9	18.8	ND	18,200	3,920	208	
	3/9/2017	446.91	14.61	0.00	432.30	31.2	114	1,010	3,070	4,225.2	21.3	ND	20,400	2,620	297	
	6/7/2017	446.91	14.07	0.00	432.84	41.9	70.9	953	2,840	3,905.8	22.4	47.8 (J)	19,500	3,080	251	
	9/6/2017	446.91	14.28	0.00	432.63	25.1	155	1,060	3,190	4,430.1	18.4	ND	26,300	6,870	291	
	11/1/2017	446.91	14.43	0.00	432.48	23.9	144	1,190	4,250	5,608	19.2	ND	21,600	4,510	301	
	3/6/2018	446.91	14.07	0.00	432.84	36.3	76.0	1,240	4,660	6,012	21.6	102	26,400	4,570	325	
	6/20/2018	446.91	12.80	0.00	434.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9/5/2018	446.91	12.99	0.00	433.92	29.3	10.4	202	267	509	9.4	17.4	3,000	823	59.7		
YMW-9	9/23/2014	436.71	6.16	0.00	430.55	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	
	12/23/2014	436.71	5.94	0.00	430.77	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	
	Casing: 0 to 2.5 feet	3/24/2015	436.71	5.41	0.00	431.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/22/2015	436.71	5.81	0.00	430.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Screen: 2.5 to 17.5 feet	9/21/2015	436.71	6.17	0.00	430.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/9/2015	436.71	5.86	0.00	430.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	3/8/2016	436.71	5.43	0.00	431.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/7/2016	436.71	5.93	0.00	430.78	ND	ND	ND	ND	ND	0.48 (J)	ND	ND	ND	ND	
	9/13/2016	436.71	6.44	0.00	430.27	ND	ND	ND	ND	ND	0.67 (J)	ND	ND	ND	ND	
	11/21/2016	436.71	6.50	0.00	430.21	ND	ND	ND	ND	ND	0.62 (J)	ND	ND	ND	ND	
	3/9/2017	436.71	6.23	0.00	430.48	ND	ND	ND	ND	ND	0.94 (J)	ND	ND	ND	ND	
	6/7/2017	436.71	6.13	0.00	430.58	ND	ND	ND	ND	ND	0.86 (J)	ND	ND	ND	ND	
	9/6/2017	436.71	6.42	0.00	430.29	ND	ND	ND	ND	ND	0.92 (J)	ND	ND	ND	ND	
	11/1/2017	436.71	6.34	0.00	430.37	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	
	3/6/2018	436.71	5.29	0.00	431.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/20/2018	436.71	5.73	0.00	430.98	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	
9/5/2018	436.71	5.88	0.00	430.83	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND		
YP-1	9/23/2014	440.41	9.11	0.00	431.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/23/2014	440.41	9.16	0.00	431.25	0.98	42.1	383	326	752.08	6.3	34.5	4,370	221	67.0	
	Casing: 0 to 8 feet	3/25/2015	440.41	9.26	0.00	431.15	1.8 (J)	72.6	762	2,120	2,956.4 (J)	11.2	70.9	13,300	2,160	160
	6/23/2015	440.41	9.18	0.00	431.23	5.6	75.6	714	1,420	2,215.2	19.3	104	11,100	1,980	186	
	Screen: 8 to 13 feet	9/22/2015	440.41	9.20	0.00	431.21	7.0	63.1	807	1,460	2,337.1	9.4	120	9,470	2,500	280
	12/10/2015	440.41	9.17	0.00	431.24	5.5	31.0	723	872	1,631.5	5.0	113	13,400	1,590	181	
	3/9/2016	440.41	9.24	0.00	431.17	6.0	28.1	756	970	1,760.1	5.0	38.4	10,700	1,940	166	
	6/8/2016	440.41	9.14	0.00	431.27	6.4	20.2	638	773	1,437.6	4.2	53.3	8,270	2,490	189	
	9/14/2016	440.41	8.18	0.00	432.23	6.8	12.4	516	259	794.2	3.5	25.0	6,130	1,730	113	
	11/22/2016	440.41	9.25	0.00	431.16	7.4	12.7	652	314	986.1	2.4	24.7	6,950	1,230	129	
	3/10/2017	440.41	9.39	0.00	431.02	4.0	22.7	820	1,160	2,006.7	ND	ND	8,680	1,710	171	
	6/8/2017	440.41	9.34	0.00	431.07	4.4	14.4	683	1,020	1,721.8	2.0 (J)	32.4 (J)	11,500	1,780	185	
	9/7/2017	440.41	9.29	0.00	431.12	6.9	23.4	698	466	1,194.3	ND	ND	8,770	3,130	228	
	11/1/2017	440.41	9.32	0.00	431.09	8.4	31.3	785	398	1,222.7	3.1	ND	6,930	2,230	202	
	3/7/2018	440.41	9.41	0.00	431.00	5.5	54.7	952	2,210	3,222.2	1.9 (J)	52.7	14,600	3,660	284	
	6/21/2018	440.41	9.14	0.00	431.27	4.2	22.6	811	1,360	2,198	4.1	89.5	9,620	2,000	245	
9/6/2018	440.41	9.01	0.00	431.40	10.1	30.6	688	759	1,488	5.3	115	9,700	2,030	202		
YP-2	9/23/2014	438.35	8.25	0.00	430.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/23/2014	438.35	8.10	0.00	430.25	3.0	ND	ND	ND	3.0	8.5	7.4 (J)	ND	ND	0.43 (J)	
	Casing: 0 to 7 feet	3/25/2015	438.35	8.05	0.00	430.30	5.3	ND	1.7	ND	7.0	12.5	ND	ND	ND	
	6/23/2015	438.35	7.98	0.00	430.37	3.9	ND	ND	ND	3.9	12.6	4.7 (J)	ND	95	ND	
	Screen: 7 to 12 feet	9/22/2015	438.35	8.13	0.00	430.22	5.2	0.20 (J)	ND	0.77 (J)	6.17 (J)	13.2	60.2	399	299	0.52 (J)
	12/10/2015	438.35	8.25	0.00	430.10	9.8	0.18 (J)	ND	0.44 (J)	10.42 (J)	15.5	76.0	322	254	0.81 (J)	
	3/9/2016	438.35	8.15	0.00	430.20	62.4	0.21 (J)	2.8	0.44 (J)	65.85 (J)	32.7	18.9	324	110	0.66 (J)	
	6/8/2016	438.35	8.07	0.00	430.28	13.9	ND	ND	ND	13.9	17.7	23.4	159	151	ND	
	9/14/2016	438.35	8.07	0.00	430.28	2.0	ND	ND	ND	2.0	6.1	37.0	215	ND	ND	
	11/22/2016	438.35	8.11	0.00	430.24	6.9	0.46 (J)	15.9	7.4	30.66 (J)	8.6	167	1,030	437	7.7	
	3/10/2017	438.35	8.11	0.00	430.24	3.0	ND	ND	ND	3.0	11.6	78.5	168	ND	ND	
	9/7/2017	438.35	8.10	0.00	430.25	1.4	ND	ND	ND	1.4	10.1	26.3	121 (J)	196	ND	
	6/8/2017	438.35	8.23	0.00	430.12	2.0	ND	ND	ND	2.0	13.1	21.6	130 (J)	192	ND	
	9/7/2017	438.35	8.10	0.00	430.25	1.4	ND	ND	ND	1.4	10.1	26.3	121 (J)	196	ND	
	11/1/2017	438.35	8.08	0.00	430.27	6.7	ND	3.0	0.36 (J)	10.1	10.5	257	521	984	4.3 (J)	
	3/7/2018	438.35	8.12	0.00	430.23	0.93	ND	ND	ND	0.93	5.0	44.0	ND	ND	ND	
6/21/2018	438.35	8.13	0.00	430.22	0.92	ND	ND	ND	0.92	7.0	13.6	ND	ND	ND		
9/6/2018	438.35	8.16	0.00	430.19	2.9	ND	ND	ND	2.9	9.6	57.7	181 (J)	96.3	ND		
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7	

Table 1
HISTORICAL GROUNDWATER MONITORING DATA SUMMARY
 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Well No.	Date	Casing Elevation* (feet)	Depth to Water (feet)	Product Thickness (feet)	Water Table Elevation* (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Naphthalene (µg/L)	
YP-3	9/23/2014	436.51	5.21	0.00	431.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/23/2014	436.51	5.21	0.00	431.30	ND	ND	ND	ND	ND	1.9	ND	ND	ND (<80)	ND	
	Casing: 0 to 5.5 feet	3/25/2015	436.51	4.85	0.00	431.66	0.30 (J)	ND	ND	ND	0.30 (J)	6.0	ND	ND	ND (<80)	ND
		6/23/2015	436.51	4.75	0.00	431.76	0.91	ND	ND	ND	0.91	6.9	4.8 (J)	ND	199	ND
		9/22/2015	436.51	5.19	0.00	431.32	1.0	ND	ND	ND	1.0	6.6	ND	ND	122	ND
	Screen: 5.5 to 10.5 feet	12/10/2015	436.51	5.27	0.00	431.24	0.98	ND	ND	ND	0.98	5.9	5.3 (J)	ND	146	ND
		3/9/2016	436.51	4.74	0.00	431.77	0.25 (J)	ND	ND	ND	0.25 (J)	2.6	ND	ND (<55)	122	ND
		6/8/2016	436.51	5.02	0.00	431.49	0.84	ND	ND	ND	0.84	4.3	ND	ND (<55)	216	ND
		9/14/2016	436.51	5.32	0.00	431.19	0.61	ND	ND	ND	0.61	4.9	ND	ND (<100)	ND (<64)	ND
		11/22/2016	436.51	6.65	0.00	429.86	1.0	ND	ND	ND	1.0	6.7	ND	ND (<100)	NS	ND
		3/10/2017	436.51	5.62	0.00	430.89	0.88	ND	ND	ND	0.88	5.0	3.3 (J)	ND (<100)	ND (<64)	ND (<1.0)
		6/8/2017	436.51	5.21	0.00	431.30	0.69	ND	ND	ND	0.69	4.0	4.0 (J)	ND (<100)	89.6	ND (<1.0)
		9/7/2017	436.51	5.16	0.00	431.35	0.67	ND	ND	ND	0.67	3.6	ND	ND (<100)	197	ND (<1.1)
		11/1/2017	436.51	5.94	0.00	430.57	0.96	ND	ND	ND	0.96	5.7	ND	ND (<100)	413	ND (<1.1)
		3/7/2018	436.51	4.95	0.00	431.56	0.25 (J)	ND	ND	ND	0.25 (J)	2.0	ND	ND (<100)	ND (<83)	ND (<1.1)
		6/21/2018	436.51	4.62	0.00	431.89	0.39 (J)	ND	ND	ND	0.39 (J)	2.5	ND	ND (<100)	102	ND (<1.1)
	9/6/2018	436.51	4.76	0.00	431.75	ND	ND	ND	ND	ND	2.2	ND	ND (<100)	ND (<53)	ND (<0.98)	
YP-4	9/23/2014	441.83	9.01	0.00	432.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/23/2014	441.83	9.24	0.00	432.59	0.44 (J)	ND	ND	ND	0.44 (J)	36.5	19.7	386	ND (<80)	ND	
	Casing: 0 to 8 feet	3/25/2015	441.83	8.25	0.00	433.58	ND	ND	ND	ND	ND	5.5	ND	ND	ND (<80)	ND
		6/23/2015	441.83	8.96	0.00	432.87	ND	ND	ND	ND	ND	3.1	ND	ND	ND (<64)	ND
		9/22/2015	441.83	9.31	0.00	432.52	ND	ND	ND	ND	ND	12.2	ND	ND	199	0.26 (J)
	Screen: 8 to 13 feet	12/10/2015	441.83	9.28	0.00	432.55	0.41 (J)	ND	ND	ND	0.41 (J)	19.5	13.7	ND	ND (<64)	ND
		3/9/2016	441.83	8.54	0.00	433.29	ND	ND	ND	ND	ND	2.7	ND	ND (<55)	ND (<64)	ND
		6/8/2016	441.83	9.02	0.00	432.81	ND	ND	ND	ND	ND	4.2	ND	ND (<55)	ND (<64)	ND
		9/14/2016	441.83	9.53	0.00	432.30	0.23 (J)	ND	ND	ND	0.23 (J)	14.1	9.3 (J)	118 (J)	ND (<64)	ND
		11/22/2016	441.83	9.74	0.00	432.09	0.29 (J)	ND	ND	ND	0.29 (J)	19.8	18.4	140 (J)	122	ND
		3/10/2017	441.83	9.91	0.00	431.92	ND	ND	ND	ND	ND	19.9	ND	ND (<100)	ND (<64)	ND (<1.0)
		6/8/2017	441.83	9.31	0.00	432.52	ND	ND	ND	ND	ND	5.0	ND	ND (<100)	115	ND (<1.0)
		9/7/2017	441.83	9.72	0.00	432.11	ND	ND	ND	ND	ND	11.0	ND	ND (<100)	199	ND (<1.1)
		11/1/2017	441.83	9.82	0.00	432.01	ND	ND	ND	ND	ND	14.2	ND	ND (<100)	107	ND (<1.1)
		3/7/2018	441.83	9.23	0.00	432.60	ND	ND	ND	ND	ND	8.5	ND	ND (<100)	ND (<83)	ND (<1.1)
		6/21/2018	441.83	8.48	0.00	433.35	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)
	9/6/2018	441.83	8.61	0.00	433.22	ND	ND	ND	ND	ND	4.7	ND	ND (<100)	ND (<53)	ND (<0.98)	
YP-5	9/23/2014	433.65	4.01	0.00	429.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/23/2014	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	0.66 (J)	ND	ND	137	ND	
	Casing: 0 to 5 feet	3/25/2015	433.65	3.90	0.00	429.75	ND	ND	ND	ND	ND	17.7	51.2	ND	ND (<80)	ND
		6/23/2015	433.65	4.49	0.00	429.16	0.28 (J)	ND	ND	ND	0.28 (J)	32.3	106	ND	117	ND
		9/22/2015	433.65	4.12	0.00	429.53	1.2	ND	ND	ND	1.2	45.7	139	ND	236	ND
	Screen: 5 to 10 feet	12/10/2015	433.65	3.88	0.00	429.77	ND	ND	ND	ND	ND	33.2	8.7 (J)	ND	ND (<64)	ND
		3/9/2016	433.65	3.97	0.00	429.68	ND	ND	ND	ND	ND	1.6	ND	ND (<55)	ND (<64)	ND
		6/8/2016	433.65	4.31	0.00	429.34	ND	ND	ND	ND	ND	2.2	7.5 (J)	ND (<55)	232	ND
		9/14/2016	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	10.4	32.6	ND (<100)	ND (<64)	ND
		11/22/2016	433.65	4.37	0.00	429.28	ND	ND	ND	ND	ND	29.7	34.5	ND (<100)	ND (<64)	ND
		3/10/2017	433.65	4.18	0.00	429.47	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)
		6/8/2017	433.65	4.31	0.00	429.34	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<64)	ND (<1.0)
		9/7/2017	433.65	3.31	0.00	430.34	ND	ND	ND	ND	ND	ND	ND	ND (<100)	140	ND (<1.1)
		11/1/2017	433.65	4.33	0.00	429.32	ND	ND	ND	ND	ND	ND	ND	ND (<100)	299	ND (<1.1)
		3/7/2018	433.65	3.84	0.00	429.81	ND	ND	ND	ND	ND	ND	ND	ND (<100)	105	ND (<1.1)
		6/21/2018	433.65	3.93	0.00	429.72	ND	ND	ND	ND	ND	ND	ND	ND (<100)	ND (<83)	ND (<1.1)
	9/6/2018	433.65	4.01	0.00	429.64	ND	ND	ND	ND	ND	0.62 (J)	ND	ND (<100)	ND (<53)	ND (<0.98)	
MDE MEAT GNCSG**						5	1,000	700	10,000	NA	20	NA	47	47	0.7	

Table Notes:

*Elevation is relative to a designated benchmark
 (Current Casing elevations surveyed on August 25, 2010.)
 **Generic Numeric Cleanup Standards for Groundwater (GNCSG) from Appendix F of the Maryland Department of the Environment (MDE) Maryland Environmental Assessment Technology (MEAT) for Leaking Underground Storage Tanks
 ***The June 18, 2014 TPH-DRO parameters were analyzed out of laboratory holding times; Follow-up samples were collected on June 30, 2014, for analysis of TPH-DRO only
 †The June 8, 2017 TPH-DRO sample was lost in transit. Follow-up sample was collected on June 21, 2017, for analysis of TPH-DRO only
 ND (<MDL) = Not Detected above Method Detection Limit. (As of 2012 this changed to mean "Not Detected above Method Detection Limit".)
 Groundwater elevations corrected for the presence of LPH using the following formula: Water Table Elevation = Water Elevation+(0.75*LPH Thickness)
 Values in boldface type exceed applicable MDE MEAT GNCSG
 ND = Not Detected
 NA = Not Applicable
 Total BTEX = sum of Benzene, Toluene, Ethylbenzene, and Xylenes
 MTBE = Methyl-tertiary-Butyl Ether
 NS = Not Sampled for indicated analyte
 LPH = Liquid Phase Hydrocarbons
 ‡ = Bottleneck broken in shipment.
 J = Laboratory Estimated Value
 µg/L = micrograms per liter
 † = Samples damaged in shipment, resampled for TPH-DRO on 5/24/12
 E= Value Exceeded Laboratory Calibration Range
 NM = Not Measured
 NSVD - Not Surveyed

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
MDE-4 Casing: 0 to 3 feet Screen: 3 to 13 feet	1/19/2015	443.18	0.00	9.89	433.29
	2/25/2015	443.18	0.00	9.99	433.19
	3/24/2015	443.18	0.00	9.58	433.60
	4/20/2015	443.18	0.00	9.41	433.77
	5/27/2015	443.18	0.00	9.51	433.67
	6/22/2015	443.18	0.00	9.25	433.93
	7/28/2015	443.18	0.00	8.94	434.24
	8/24/2015	443.18	0.00	9.14	434.04
	9/21/2015	443.18	0.00	9.28	433.90
	10/29/2015	443.18	0.00	9.03	434.15
	11/18/2015	443.18	0.00	9.73	433.45
	12/9/2015	443.18	0.00	9.58	433.60
	1/12/2016	443.18	0.00	9.31	433.87
	3/8/2016	443.18	0.00	8.98	434.20
	6/7/2016	443.18	0.00	9.03	434.15
	9/13/2016	443.18	0.00	9.48	433.70
	11/21/2016	443.18	0.00	9.90	433.28
	3/9/2017	443.18	0.00	10.42	432.76
	6/7/2017	443.18	0.00	9.72	433.46
9/6/2017	443.18	0.00	9.77	433.41	
11/1/2017	443.18	0.00	9.97	433.21	
3/6/2018	443.18	0.00	9.84	433.34	
6/20/2018	443.18	0.00	8.72	434.46	
9/5/2018	443.18	0.00	8.64	434.54	
MW-1 Casing: Unknown Screen: Unknown	1/19/2015	453.92	NM	NM	NM
	2/25/2015	453.92	NM	NM	NM
	3/24/2015	453.92	NM	NM	NM
	4/20/2015	453.92	0.00	16.71	437.21
	5/27/2015	453.92	0.00	18.75	435.17
	6/22/2015	453.92	0.00	18.24	435.68
	7/28/2015	453.92	0.00	17.20	436.72
	8/24/2015	453.92	0.00	17.42	436.50
	9/21/2015	453.92	0.00	18.49	435.43
	10/29/2015	453.92	0.00	18.36	435.56
	11/18/2015	453.92	0.00	19.40	434.52
	12/9/2015	453.92	0.00	19.24	434.68
	1/12/2016	453.92	0.00	18.45	435.47
	3/8/2016	453.92	0.00	18.28	435.64
	6/7/2016	453.92	0.00	18.21	435.71
	9/13/2016	453.92	0.00	18.92	435.00
	11/21/2016	453.92	0.00	19.83	434.09
	3/9/2017	453.92	0.00	20.49	433.43
	6/7/2017	453.92	0.00	19.38	434.54
	9/6/2017	453.92	0.00	19.04	434.88
11/1/2017	453.92	0.00	19.67	434.25	
3/6/2018	453.92	0.00	20.16	433.76	
6/20/2018	453.92	0.00	17.45	436.47	
9/5/2018	453.92	0.00	16.71	437.21	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
MW-4 Casing: 0 to 10 feet Screen: 10 to 25 feet	1/19/2015	455.10	NM	NM	NM
	2/25/2015	455.10	NM	NM	NM
	3/24/2015	455.10	NM	NM	NM
	4/20/2015	455.10	0.00	20.72	434.38
	5/27/2015	455.10	0.00	20.68	434.42
	6/22/2015	455.10	0.00	20.38	434.72
	7/28/2015	455.10	0.00	19.86	435.24
	8/24/2015	455.10	0.00	20.08	435.02
	9/21/2015	455.10	0.00	20.57	434.53
	10/29/2015	455.10	0.00	20.26	434.84
	11/18/2015	455.10	0.00	21.29	433.81
	12/9/2015	455.10	0.00	21.08	434.02
	1/12/2016	455.10	0.00	20.54	434.56
	3/8/2016	455.10	0.00	20.29	434.81
	6/7/2016	455.10	0.00	20.28	434.82
	9/13/2016	455.10	0.00	20.87	434.23
	11/21/2016	455.10	0.00	21.56	433.54
	3/9/2017	455.10	0.00	22.05	433.05
	9/6/2017	455.10	0.00	20.94	434.16
6/7/2017	455.10	0.00	21.18	433.92	
11/1/2017	455.10	0.00	21.41	433.69	
3/6/2018	455.10	0.00	21.75	433.35	
6/20/2018	455.10	0.00	19.73	435.37	
9/5/2018	455.10	0.00	19.34	435.76	
MW-7	1/19/2015	452.69	0.00	19.21	433.48
	2/25/2015	452.69	0.00	19.06	433.63
	3/24/2015	452.69	0.00	18.67	434.02
	4/20/2015	452.69	0.00	18.47	434.22
	5/27/2015	452.69	0.00	15.60	437.09
	6/22/2015	452.69	0.00	18.29	434.40
	7/28/2015	452.69	0.00	17.90	434.79
	8/24/2015	452.69	0.00	18.11	434.58
	9/21/2015	452.69	0.00	18.42	434.27
	10/29/2015	452.69	0.00	18.20	434.49
	11/18/2015	452.69	0.00	18.99	433.70
	12/9/2015	452.69	0.00	18.81	433.88
	1/12/2016	452.69	0.00	18.71	433.98
	3/8/2016	452.69	0.00	18.16	434.53
	6/7/2016	452.69	0.00	18.19	434.50
	9/13/2016	452.69	0.00	18.62	434.07
	11/21/2016	452.69	0.00	19.14	433.55
	3/9/2017	452.69	0.00	19.63	433.06
	6/7/2017	452.69	0.00	18.89	433.80
	9/6/2017	452.69	0.00	18.78	433.91
11/1/2017	452.69	0.00	19.07	433.62	
3/6/2018	452.69	0.00	19.31	433.38	
6/20/2018	452.69	0.00	17.74	434.95	
9/5/2018	452.69	0.00	17.38	435.31	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
OW-1 Casing: 0 to 9 feet Screen: 9 to 34 feet	1/19/2015	455.31	0.00	19.33	435.98
	2/25/2015	455.31	0.00	21.66	433.65
	3/24/2015	455.31	0.00	21.08	434.23
	4/20/2015	455.31	0.00	20.66	434.65
	5/27/2015	455.31	0.00	20.59	434.72
	6/22/2015	455.31	0.00	20.58	434.73
	7/28/2015	455.31	0.00	20.18	435.13
	8/24/2015	455.31	0.00	20.40	434.91
	9/21/2015	455.31	0.00	20.73	434.58
	10/29/2015	455.31	0.00	20.55	434.76
	11/18/2015	455.31	0.00	21.38	433.93
	12/9/2015	455.31	0.00	21.23	434.08
	1/12/2016	455.31	0.00	21.06	434.25
	3/8/2016	455.31	0.00	20.54	434.77
	6/7/2016	455.31	0.00	20.58	434.73
	9/13/2016	455.31	0.00	21.03	434.28
	11/21/2016	455.31	0.00	21.82	433.49
	3/9/2017	455.31	0.00	22.04	433.27
	9/6/2017	455.31	0.00	21.27	434.04
6/7/2017	455.31	0.00	21.22	434.09	
11/1/2017	455.31	0.00	21.53	433.78	
3/6/2018	455.31	0.00	21.77	433.54	
6/20/2018	455.31	0.00	20.03	435.28	
9/5/2018	455.31	0.00	19.61	435.70	
YMW-1	1/19/2015	433.64	0.00	3.66	429.98
	2/25/2015	433.64	0.00	4.01	429.63
	3/24/2015	433.64	0.00	3.02	430.62
	4/20/2015	433.64	0.00	3.34	430.30
	5/27/2015	433.64	0.00	4.08	429.56
	6/22/2015	433.64	0.00	3.04	430.60
	7/28/2015	433.64	0.00	3.04	430.60
	8/24/2015	433.64	0.00	1.51	432.13
	9/21/2015	433.64	0.00	4.94	428.70
	10/29/2015	433.64	0.00	4.63	429.01
	11/18/2015	433.64	0.00	4.45	429.19
	12/9/2015	433.64	0.00	4.37	429.27
	1/12/2016	433.64	0.00	3.31	430.33
	3/8/2016	433.64	0.00	3.31	430.33
	6/7/2016	433.64	0.00	3.90	429.74
	9/13/2016	433.64	0.00	5.47	428.17
	11/21/2016	433.64	0.00	6.21	427.43
	3/9/2017	433.64	0.00	5.40	428.24
	6/7/2017	433.64	0.00	4.25	429.39
	9/6/2017	433.64	0.00	4.44	429.20
11/1/2017	433.64	0.00	5.37	428.27	
3/6/2018	433.64	0.00	4.16	429.48	
6/20/2018	433.64	0.00	3.08	430.56	
9/5/2018	433.64	0.00	3.35	430.29	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YMW-2 Casing: 0 to 2 feet Screen: 2 to 14 feet	1/19/2015	431.37	0.00	2.86	428.51
	2/25/2015	431.37	0.00	2.84	428.53
	3/24/2015	431.37	0.00	2.78	428.59
	4/20/2015	431.37	0.00	2.71	428.66
	5/27/2015	431.37	0.00	2.78	428.59
	6/22/2015	431.37	0.00	2.51	428.86
	7/28/2015	431.37	0.00	2.41	428.96
	8/24/2015	431.37	0.00	0.61	430.76
	9/21/2015	431.37	0.00	2.58	428.79
	10/29/2015	431.37	0.00	2.31	429.06
	11/18/2015	431.37	0.00	4.02	427.35
	12/9/2015	431.37	0.00	3.94	427.43
	1/12/2016	431.37	0.00	2.90	428.47
	3/8/2016	431.37	0.00	2.97	428.40
	6/7/2016	431.37	0.00	2.84	428.53
	9/13/2016	431.37	0.00	2.44	428.93
	11/21/2016	431.37	0.00	2.94	428.43
	3/9/2017	431.37	0.00	2.94	428.43
	6/7/2017	431.37	0.00	3.10	428.27
9/6/2017	431.37	0.00	2.65	428.72	
11/1/2017	431.37	0.00	2.67	428.70	
3/6/2018	431.37	0.00	2.85	428.52	
6/20/2018	431.37	0.00	2.58	428.79	
9/5/2018	431.37	0.00	2.51	428.86	
YMW-3 Casing: 0 to 4.5 feet Screen: 4.5 to 19.5 feet	1/19/2015	440.39	0.00	8.63	431.76
	2/25/2015	440.39	0.00	8.87	431.52
	3/24/2015	440.39	0.00	8.17	432.22
	4/20/2015	440.39	0.00	8.19	432.20
	5/27/2015	440.39	0.00	8.54	431.85
	6/22/2015	440.39	0.00	8.54	431.85
	7/28/2015	440.39	0.00	7.76	432.63
	8/24/2015	440.39	0.00	7.97	432.42
	9/21/2015	440.39	0.00	9.21	431.18
	10/29/2015	440.39	0.00	9.00	431.39
	11/18/2015	440.39	0.00	9.09	431.30
	12/9/2015	440.39	0.00	8.83	431.56
	1/12/2016	440.39	0.00	7.97	432.42
	3/8/2016	440.39	0.00	8.63	431.76
	6/7/2016	440.39	0.00	8.86	431.53
	9/13/2016	440.39	0.00	9.54	430.85
	11/21/2016	440.39	0.00	10.44	429.95
	3/9/2017	440.39	0.00	9.55	430.84
	6/7/2017	440.39	0.00	8.82	431.57
	9/6/2017	440.39	0.00	8.84	431.55
11/1/2017	440.39	0.00	9.34	431.05	
3/6/2018	440.39	0.00	7.97	432.42	
6/20/2018	440.39	0.00	8.27	432.12	
9/5/2018	440.39	0.00	8.48	431.91	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YMW-4 Casing: 0 to 2 feet Screen: 2 to 17 feet	1/19/2015	433.72	0.00	4.29	429.43
	2/25/2015	433.72	0.00	4.02	429.70
	3/24/2015	433.72	0.00	4.06	429.66
	4/20/2015	433.72	0.00	4.09	429.63
	5/27/2015	433.72	0.00	4.33	429.39
	6/22/2015	433.72	0.00	3.96	429.76
	7/28/2015	433.72	0.00	4.13	429.59
	8/24/2015	433.72	0.00	2.34	431.38
	9/21/2015	433.72	0.00	4.45	429.27
	10/29/2015	433.72	0.00	4.24	429.48
	11/18/2015	433.72	0.00	4.55	429.17
	12/9/2015	433.72	0.00	4.34	429.38
	1/12/2016	433.72	0.00	4.71	429.01
	3/8/2016	433.72	0.00	4.18	429.54
	6/7/2016	433.72	0.00	4.18	429.54
	9/13/2016	433.72	0.00	4.46	429.26
	11/21/2016	433.72	0.00	4.85	428.87
	3/9/2017	433.72	0.00	4.30	429.42
	6/7/2017	433.72	0.00	4.26	429.46
	9/6/2017	433.72	0.00	4.18	429.54
11/1/2017	433.72	0.00	4.41	429.31	
3/6/2018	433.72	0.00	4.24	429.48	
6/20/2018	433.72	0.00	3.89	429.83	
9/5/2018	433.72	0.00	4.01	429.71	
YMW-5 Casing: 0 to 1 feet Screen: 1 to 16 feet	1/19/2015	430.70	0.00	3.26	427.44
	2/25/2015	430.70	0.00	3.15	427.55
	3/24/2015	430.70	0.00	3.05	427.65
	4/20/2015	430.70	0.00	3.19	427.51
	5/27/2015	430.70	0.00	3.25	427.45
	6/22/2015	430.70	0.00	3.05	427.65
	7/28/2015	430.70	0.00	3.23	427.47
	8/24/2015	430.70	0.00	1.43	429.27
	9/21/2015	430.70	0.00	3.52	427.18
	10/29/2015	430.70	0.00	3.23	427.47
	11/18/2015	430.70	0.00	3.32	427.38
	12/9/2015	430.70	0.00	3.16	427.54
	1/12/2016	430.70	0.00	2.91	427.79
	3/8/2016	430.70	0.00	2.99	427.71
	6/7/2016	430.70	0.00	3.01	427.69
	9/13/2016	430.70	0.00	3.39	427.31
	11/21/2016	430.70	0.00	3.74	426.96
	3/9/2017	430.70	0.00	3.14	427.56
	6/7/2017	430.70	0.00	3.07	427.63
	9/6/2017	430.70	0.00	2.98	427.72
11/1/2017	430.70	0.00	3.23	427.47	
3/6/2018	430.70	0.00	2.83	427.87	
6/20/2018	430.70	0.00	2.67	428.03	
9/5/2018	430.70	0.00	2.74	427.96	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YMW-6 Casing: 0 to 3 feet Screen: 3 to 18 feet	1/19/2015	432.68	0.00	5.42	427.26
	2/25/2015	432.68	0.00	5.59	427.09
	3/24/2015	432.68	0.00	5.11	427.57
	4/20/2015	432.68	0.00	5.08	427.60
	5/27/2015	432.68	0.00	5.87	426.81
	6/22/2015	432.68	0.00	5.11	427.57
	7/28/2015	432.68	0.00	5.38	427.30
	8/24/2015	432.68	0.00	3.58	429.10
	9/21/2015	432.68	0.00	6.11	426.57
	10/29/2015	432.68	0.00	6.01	426.67
	11/18/2015	432.68	0.00	5.79	426.89
	12/9/2015	432.68	0.00	5.56	427.12
	1/12/2016	432.68	0.00	5.11	427.57
	3/8/2016	432.68	0.00	5.10	427.58
	6/7/2016	432.68	0.00	5.36	427.32
	9/13/2016	432.68	0.00	6.38	426.30
	11/21/2016	432.68	0.00	7.05	425.63
	3/9/2017	432.68	0.00	6.25	426.43
	6/7/2017	432.68	0.00	5.49	427.19
9/6/2017	432.68	0.00	6.25	426.43	
11/1/2017	432.68	0.00	6.65	426.03	
3/6/2018	432.68	0.00	5.35	427.33	
6/20/2018	432.68	0.00	4.89	427.79	
9/5/2018	432.68	0.00	5.05	427.63	
YMW-7 Casing: 0 to 18 feet Screen: 18 to 28 feet	1/19/2015	449.40	0.00	15.91	433.49
	2/25/2015	449.40	0.00	15.98	433.42
	3/24/2015	449.40	0.00	15.54	433.86
	4/20/2015	449.40	0.00	15.47	433.93
	5/27/2015	449.40	0.00	15.51	433.89
	6/22/2015	449.40	0.00	15.22	434.18
	7/28/2015	449.40	0.00	14.89	434.51
	8/24/2015	449.40	0.00	15.10	434.30
	9/21/2015	449.40	0.00	15.32	434.08
	10/29/2015	449.40	0.00	14.97	434.43
	11/18/2015	449.40	0.00	15.83	433.57
	12/9/2015	449.40	0.00	15.68	433.72
	1/12/2016	449.40	0.00	15.29	434.11
	3/8/2016	449.40	0.00	15.13	434.27
	6/7/2016	449.40	0.00	15.09	434.31
	9/13/2016	449.40	0.00	15.47	433.93
	11/21/2016	449.40	0.00	15.69	433.71
	3/9/2017	449.40	0.00	16.31	433.09
	6/7/2017	449.40	0.00	15.24	434.16
	9/6/2017	449.40	0.00	15.68	433.72
11/1/2017	449.40	0.00	15.91	433.49	
3/6/2018	449.40	0.00	16.12	433.28	
6/20/2018	449.40	0.00	14.75	434.65	
9/5/2018	449.40	0.00	14.43	434.97	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YMW-8 Casing: 0 to 7 feet Screen: 7 to 22 feet	1/19/2015	446.91	0.00	13.86	433.05
	2/25/2015	446.91	0.00	14.52	432.39
	3/24/2015	446.91	0.00	12.91	434.00
	4/20/2015	446.91	0.00	13.34	433.57
	5/27/2015	446.91	0.00	13.61	433.30
	6/22/2015	446.91	0.00	13.44	433.47
	7/28/2015	446.91	0.00	13.34	433.57
	8/24/2015	446.91	0.00	13.55	433.36
	9/21/2015	446.91	0.00	13.85	433.06
	10/29/2015	446.91	0.00	13.56	433.35
	11/18/2015	446.91	0.00	14.11	432.80
	12/9/2015	446.91	0.00	13.94	432.97
	1/12/2016	446.91	0.00	13.57	433.34
	3/8/2016	446.91	0.00	13.05	433.86
	6/7/2016	446.91	0.00	13.52	433.39
	9/13/2016	446.91	0.00	14.03	432.88
	11/21/2016	446.91	0.00	14.39	432.52
	3/9/2017	446.91	0.00	14.61	432.30
	6/7/2017	446.91	0.00	14.07	432.84
	9/6/2017	446.91	0.00	14.28	432.63
11/1/2017	446.91	0.00	14.43	432.48	
3/6/2018	446.91	0.00	14.07	432.84	
6/20/2018	446.91	0.00	12.80	434.11	
9/5/2018	446.91	0.00	12.99	433.92	
YMW-9	1/19/2015	436.71	0.00	5.69	431.02
	2/25/2015	436.71	0.00	5.93	430.78
	3/24/2015	436.71	0.00	5.41	431.30
	4/20/2015	436.71	0.00	4.80	431.91
	5/27/2015	436.71	0.00	6.02	430.69
	6/22/2015	436.71	0.00	5.81	430.90
	7/28/2015	436.71	0.00	5.94	430.77
	8/24/2015	436.71	0.00	4.14	432.57
	9/21/2015	436.71	0.00	6.17	430.54
	10/29/2015	436.71	0.00	5.99	430.72
	11/18/2015	436.71	0.00	6.13	430.58
	12/9/2015	436.71	0.00	5.86	430.85
	1/12/2016	436.71	0.00	5.04	431.67
	3/8/2016	436.71	0.00	5.43	431.28
	6/7/2016	436.71	0.00	5.93	430.78
	9/13/2016	436.71	0.00	6.44	430.27
	11/21/2016	436.71	0.00	6.50	430.21
	3/9/2017	436.71	0.00	6.23	430.48
	6/7/2017	436.71	0.00	6.13	430.58
	9/6/2017	436.71	0.00	6.42	430.29
11/1/2017	436.71	0.00	6.34	430.37	
3/6/2018	436.71	0.00	5.29	431.42	
6/20/2018	436.71	0.00	5.73	430.98	
9/5/2018	436.71	0.00	5.88	430.83	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YP-1 Casing: 0 to 8 feet Screen: 8 to 13 feet	1/19/2015	440.41	0.00	9.25	431.16
	2/25/2015	440.41	0.00	9.25	431.16
	3/24/2015	440.41	0.00	9.26	431.15
	4/20/2015	440.41	0.00	9.23	431.18
	5/27/2015	440.41	0.00	9.34	431.07
	6/22/2015	440.41	0.00	9.18	431.23
	7/28/2015	440.41	0.00	8.79	431.62
	8/24/2015	440.41	0.00	8.99	431.42
	9/21/2015	440.41	0.00	9.20	431.21
	10/29/2015	440.41	0.00	8.96	431.45
	11/18/2015	440.41	0.00	9.30	431.11
	12/9/2015	440.41	0.00	9.17	431.24
	1/12/2016	440.41	0.00	9.14	431.27
	3/8/2016	440.41	0.00	9.24	431.17
	6/7/2016	440.41	0.00	9.14	431.27
	9/13/2016	440.41	0.00	8.18	432.23
	11/21/2016	440.41	0.00	9.25	431.16
	3/10/2017	440.41	0.00	9.39	431.02
	6/8/2017	440.41	0.00	9.34	431.07
9/7/2017	440.41	0.00	9.29	431.12	
11/2/2017	440.41	0.00	9.32	431.09	
3/7/2018	440.41	0.00	9.41	431.00	
6/21/2018	440.41	0.00	9.14	431.27	
9/6/2018	440.41	0.00	9.01	431.40	
YP-2 Casing: 0 to 7 feet Screen: 7 to 12 feet	1/19/2015	438.35	0.00	8.27	430.08
	2/25/2015	438.35	0.00	8.09	430.26
	3/24/2015	438.35	0.00	8.05	430.30
	4/20/2015	438.35	0.00	8.01	430.34
	5/27/2015	438.35	0.00	8.36	429.99
	6/22/2015	438.35	0.00	7.98	430.37
	7/28/2015	438.35	0.00	8.08	430.27
	8/24/2015	438.35	0.00	8.28	430.07
	9/21/2015	438.35	0.00	8.13	430.22
	10/29/2015	438.35	0.00	7.91	430.44
	11/18/2015	438.35	0.00	8.36	429.99
	12/9/2015	438.35	0.00	8.25	430.10
	1/12/2016	438.35	0.00	8.17	430.18
	3/8/2016	438.35	0.00	8.15	430.20
	6/7/2016	438.35	0.00	8.07	430.28
	9/13/2016	438.35	0.00	8.07	430.28
	11/21/2016	438.35	0.00	8.11	430.24
	3/10/2017	438.35	0.00	8.11	430.24
	6/8/2017	438.35	0.00	8.23	430.12
	9/7/2017	438.35	0.00	8.10	430.25
11/2/2017	438.35	0.00	8.08	430.27	
3/7/2018	438.35	0.00	8.12	430.23	
6/21/2018	438.35	0.00	8.13	430.22	
9/6/2018	438.35	0.00	8.16	430.19	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YP-3 Casing: 0 to 5.5 feet Screen: 5.5 to 10.5 feet	1/19/2015	436.51	0.00	5.09	431.42
	2/25/2015	436.51	0.00	5.01	431.50
	3/24/2015	436.51	0.00	4.85	431.66
	4/20/2015	436.51	0.00	5.67	430.84
	5/27/2015	436.51	0.00	5.47	431.04
	6/22/2015	436.51	0.00	4.75	431.76
	7/28/2015	436.51	0.00	5.08	431.43
	8/24/2015	436.51	0.00	5.11	431.40
	9/21/2015	436.51	0.00	5.19	431.32
	10/29/2015	436.51	0.00	4.88	431.63
	11/18/2015	436.51	0.00	5.40	431.11
	12/9/2015	436.51	0.00	5.27	431.24
	1/12/2016	436.51	0.00	4.93	431.58
	3/8/2016	436.51	0.00	4.74	431.77
	6/7/2016	436.51	0.00	5.02	431.49
	9/13/2016	436.51	0.00	5.32	431.19
	11/21/2016	436.51	0.00	6.65	429.86
	3/10/2017	436.51	0.00	5.62	430.89
	6/8/2017	436.51	0.00	5.21	431.30
9/7/2017	436.51	0.00	5.16	431.35	
11/2/2017	436.51	0.00	5.94	430.57	
3/7/2018	436.51	0.00	4.95	431.56	
6/21/2018	436.51	0.00	4.62	431.89	
9/6/2018	436.51	0.00	4.76	431.75	
YP-4 Casing: 0 to 8 feet Screen: 8 to 13 feet	1/19/2015	441.83	0.00	9.13	432.70
	2/25/2015	441.83	0.00	9.32	432.51
	3/24/2015	441.83	0.00	8.25	433.58
	4/20/2015	441.83	0.00	8.74	433.09
	5/27/2015	441.83	0.00	9.07	432.76
	6/22/2015	441.83	0.00	8.96	432.87
	7/28/2015	441.83	0.00	8.27	433.56
	8/24/2015	441.83	0.00	9.18	432.65
	9/21/2015	441.83	0.00	9.31	432.52
	10/29/2015	441.83	0.00	9.11	432.72
	11/18/2015	441.83	0.00	9.41	432.42
	12/9/2015	441.83	0.00	9.28	432.55
	1/12/2016	441.83	0.00	8.78	433.05
	3/8/2016	441.83	0.00	8.54	433.29
	6/7/2016	441.83	0.00	9.02	432.81
	9/13/2016	441.83	0.00	9.53	432.30
	11/21/2016	441.83	0.00	9.74	432.09
	3/10/2017	441.83	0.00	9.91	431.92
	6/8/2017	441.83	0.00	9.31	432.52
	9/7/2017	441.83	0.00	9.72	432.11
11/2/2017	441.83	0.00	9.82	432.01	
3/7/2018	441.83	0.00	9.23	432.60	
6/21/2018	441.83	0.00	8.48	433.35	
9/6/2018	441.83	0.00	8.61	433.22	

TABLE 2
GROUNDWATER GAUGING
RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Monitoring Well/Piezometer Identification	Gauging Date	Top of Casing Elevation (ft)	LPH Thickness (ft)	Depth to Groundwater (ft)	Corrected Groundwater Table Elevation (ft)
YP-5 Casing: 0 to 5 feet Screen: 5 to 10 feet	1/19/2015	433.65	0.00	5.50	428.15
	2/25/2015	433.65	0.00	5.79	427.86
	3/24/2015	433.65	0.00	3.90	429.75
	4/20/2015	433.65	0.00	4.05	429.60
	5/27/2015	433.65	0.00	4.21	429.44
	6/22/2015	433.65	0.00	4.49	429.16
	7/28/2015	433.65	0.00	5.48	428.17
	8/24/2015	433.65	0.00	3.68	429.97
	9/21/2015	433.65	0.00	4.12	429.53
	10/29/2015	433.65	0.00	4.02	429.63
	11/18/2015	433.65	0.00	4.02	429.63
	12/9/2015	433.65	0.00	3.88	429.77
	1/12/2016	433.65	0.00	4.69	428.96
	3/8/2016	433.65	0.00	3.97	429.68
	6/7/2016	433.65	0.00	4.31	429.34
	9/13/2016	433.65	0.00	4.33	429.32
	11/21/2016	433.65	0.00	4.37	429.28
	3/10/2017	433.65	0.00	4.18	429.47
	6/8/2017	433.65	0.00	4.31	429.34
	9/7/2017	433.65	0.00	3.31	430.34
11/2/2017	433.65	0.00	4.33	429.32	
3/7/2018	433.65	0.00	3.84	429.81	
6/21/2018	433.65	0.00	3.93	429.72	
9/6/2018	433.65	0.00	4.01	429.64	

Notes:

ft = feet

LPH = Liquid Phase Hydrocarbons

NM = Not Monitored (Well not accessible)

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Yakona Road Curb Inlet	1/19/2015	0.0	0.6
	2/24/2015	0.0	0.0
	3/23/2015	0.0	0.0
	4/27/2015	0.0	0.0
	5/27/2015	0.0	0.0
	6/29/2015	0.0	0.0
	7/28/2015	0.0	0.0
	8/24/2015	0.0	0.0
	9/30/2015	0.0	0.0
	10/29/2015	0.0	0.1
	11/23/2015	0.0	0.0
	12/10/2015	0.0	0.0
	1/26/2016	0.0	0.0
	2/9/2016	0.0	0.0
	3/23/2016	0.0	0.0
	4/6/2016	0.0	0.0
	5/17/2016	0.0	0.0
	6/8/2016	0.0	0.0
	7/20/2016	0.0	0.0
	8/25/2016	0.0	0.0
	9/15/2016	0.0	0.0
	10/18/2016	0.0	0.0
	11/23/2016	0.0	0.0
	12/28/2016	0.0	0.0
	1/11/2017	0.0	0.0
	1/17/2017	0.0	0.0
	1/25/2017	0.0	0.0
	2/7/2017	0.0	0.0
	2/21/2017	0.0	0.0
	3/1/2017	0.0	0.0
	3/10/2017	0.0	0.0
	3/23/2017	0.0	0.0
	4/4/2017	0.0	0.0
	4/19/2017	0.0	0.0
	5/25/2017	0.0	0.0
	6/1/2017	0.0	0.0
	6/8/2017	0.0	0.0
	6/21/2017	0.0	0.0
	6/29/2017	0.0	0.0
	7/11/2017	0.0	0.0
7/20/2017	0.0	0.0	
7/28/2017	0.0	0.0	
8/10/2017	0.0	0.0	
8/18/2017	0.0	0.0	
9/8/2017	0.0	0.0	
9/18/2017	0.0	0.0	
10/3/2017	0.0	0.0	
10/17/2017	0.0	0.0	
10/27/2017	0.0	0.0	
11/2/2017	0.0	0.0	
11/9/2017	0.0	0.0	
11/20/2017	0.0	0.0	
11/28/2017	0.0	0.0	
12/8/2017	0.0	0.0	
1/4/2018	0.0	0.0	
1/11/2018	0.0	0.0	
1/22/2018	0.0	0.0	
1/30/2018	0.0	0.0	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Yakona Road Curb Inlet (continued)	2/7/2018	0.0	0.0
	2/14/2018	0.0	0.0
	2/21/2018	0.0	0.0
	2/28/2018	0.0	0.0
	3/7/2018	0.0	0.0
	3/14/2018	0.0	0.0
	3/21/2018	0.0	0.0
	3/29/2018	0.0	0.0
	4/3/2018	0.0	0.0
	4/11/2018	0.0	0.0
	4/18/2018	0.0	0.0
	4/26/2018	0.0	0.0
	5/2/2018	0.0	0.0
	5/9/2018	0.0	0.0
	5/15/2018	0.0	0.0
	5/23/2018	0.0	0.0
	5/31/2018	0.0	0.0
	6/6/2018	0.0	0.0
	6/13/2018	0.0	0.0
	6/21/2018	0.0	0.0
	6/28/2018	0.0	0.0
	7/3/2018	0.0	0.0
	7/12/2018	0.0	0.0
	7/18/2018	0.0	0.0
	8/1/2018	0.0	0.0
	8/8/2018	0.0	0.0
	8/15/2018	0.0	0.0
	8/22/2018	0.0	0.0
	8/29/2018	0.0	0.0
	9/6/2018	0.0	0.0
	9/12/2018	0.0	0.0
	9/19/2018	0.0	0.0
	9/25/2018	0.0	0.0
	10/3/2018	0.0	0.0
	10/10/2018	0.0	0.0
	10/17/2018	0.0	0.0
	10/24/2018	0.0	0.0
	10/31/2018	0.0	0.0
	11/7/2018	0.0	0.0
	11/14/2018	0.0	0.0
11/27/2018	0.0	0.0	
12/4/2018	0.0	0.0	
12/12/2018	0.0	0.0	
12/26/2018	0.0	0.0	
1/3/2019	0.0	0.0	
1/10/2019	0.0	0.0	
1/16/2019	0.0	0.0	
1/24/2019	0.0	0.0	
1/30/2019	0.0	0.0	
2/6/2019	0.0	0.0	
2/15/2019	0.0	0.0	
2/21/2019	0.0	0.0	
2/27/2019	0.0	0.0	
3/6/2019	0.0	0.0	
3/13/2019	0.0	0.0	
3/20/2019	0.0	0.0	
3/27/2019	0.0	0.0	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 3	1/19/2015	0.0	0.4
	2/24/2015	0.0	0.0
	3/23/2015	0.0	0.0
	4/27/2015	0.0	0.0
	5/27/2015	0.0	0.0
	6/29/2015	0.0	2.2
	7/28/2015	0.0	0.2
	8/24/2015	0.0	0.4
	9/30/2015	0.0	0.7
	10/29/2015	0.0	0.8
	11/23/2015	0.0	0.0
	12/10/2015	0.0	0.1
	1/26/2016	0.0	0.0
	2/9/2016	0.0	0.0
	3/23/2016	0.0	0.0
	4/6/2016	0.0	0.0
	5/17/2016	0.0	0.0
	6/8/2016	0.0	0.6
	7/20/2016	0.0	0.2
	8/25/2016	0.0	2.4
	9/15/2016	0.0	0.0
	10/18/2016	0.0	0.0
	11/23/2016	0.0	0.0
	12/28/2016	0.0	0.0
	1/11/2017	0.0	0.0
	1/17/2017	0.0	0.0
	1/25/2017	0.0	0.0
	2/7/2017	0.0	0.0
	2/21/2017	0.0	0.0
	3/1/2017	0.0	0.0
	3/10/2017	0.0	0.0
	3/23/2017	0.0	0.0
	4/4/2017	0.0	0.0
	4/19/2017	0.0	0.0
	5/25/2017	0.0	0.0
	6/1/2017	0.0	0.0
	6/8/2017	0.0	0.0
	6/21/2017	0.0	0.0
	6/29/2017	0.0	0.0
	7/11/2017	0.0	0.0
7/20/2017	0.0	0.0	
7/28/2017	0.0	0.0	
8/10/2017	0.0	0.0	
8/18/2017	0.0	0.0	
9/8/2017	0.0	0.0	
9/18/2017	0.0	0.0	
10/3/2017	0.0	0.0	
10/17/2017	0.0	0.0	
10/27/2017	0.0	0.0	
11/2/2017	0.0	0.0	
11/9/2017	0.0	0.0	
11/20/2017	0.0	0.0	
11/28/2017	0.0	0.0	
12/8/2017	0.0	0.0	
1/4/2018	0.0	0.0	
1/11/2018	0.0	0.0	
1/22/2018	0.0	0.0	
1/30/2018	0.0	0.0	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 3 (continued)	2/7/2018	0.0	0.0
	2/14/2018	0.0	0.0
	2/21/2018	0.0	0.0
	2/28/2018	0.0	0.0
	3/7/2018	0.0	0.0
	3/14/2018	0.0	0.0
	3/21/2018	0.0	0.0
	3/29/2018	0.0	0.0
	4/3/2018	0.0	0.0
	4/11/2018	0.0	0.0
	4/18/2018	0.0	0.0
	4/26/2018	0.0	0.0
	5/2/2018	0.0	0.0
	5/9/2018	0.0	0.0
	5/15/2018	0.0	0.0
	5/23/2018	0.0	0.0
	5/31/2018	0.0	0.0
	6/6/2018	0.0	0.0
	6/13/2018	0.0	0.0
	6/21/2018	0.0	0.0
	6/28/2018	0.0	0.0
	7/3/2018	0.0	0.0
	7/12/2018	0.0	0.0
	7/18/2018	0.0	0.0
	8/1/2018	0.0	0.0
	8/8/2018	0.0	0.0
	8/15/2018	0.0	0.0
	8/22/2018	0.0	0.0
	8/29/2018	0.0	0.0
	9/6/2018	0.0	0.0
	9/12/2018	0.0	0.0
	9/19/2018	0.0	0.0
	9/25/2018	0.0	0.0
	10/3/2018	0.0	0.0
	10/10/2018	0.0	0.0
	10/17/2018	0.0	0.0
	10/24/2018	0.0	0.0
	10/31/2018	0.0	0.0
	11/7/2018	0.0	0.0
	11/14/2018	0.0	0.0
11/27/2018	0.0	0.0	
12/4/2018	0.0	0.0	
12/12/2018	0.0	0.0	
12/26/2018	0.0	0.0	
1/3/2019	0.0	0.0	
1/10/2019	0.0	0.0	
1/16/2019	0.0	0.0	
1/24/2019	0.0	0.0	
1/30/2019	0.0	0.0	
2/6/2019	0.0	0.0	
2/15/2019	0.0	0.0	
2/21/2019	0.0	12.8	
2/27/2019	0.0	74.2	
3/6/2019	0.0	54.9	
3/13/2019	0.0	0.0	
3/20/2019	0.0	0.0	
3/27/2019	0.0	0.0	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 21	1/19/2015	0.0	1.6
	2/24/2015	0.0	1.2
	3/23/2015	0.0	5.0
	4/27/2015	0.0	23.0
	5/27/2015	0.0	1.0
	6/29/2015	0.0	7.9
	7/28/2015	0.0	1.9
	8/24/2015	0.0	2.6
	9/30/2015	0.0	2.9
	10/29/2015	0.0	3.2
	11/23/2015	0.0	0.1
	12/10/2015	0.0	0.7
	1/26/2016	0.0	0.0
	2/9/2016	0.0	0.4
	3/23/2016	0.0	0.2
	4/6/2016	0.0	25.9
	5/17/2016	0.0	26.7
	6/8/2016	0.0	21.3
	7/20/2016	0.0	20.4
	8/25/2016	0.0	27.2
	9/15/2016	0.0	2.0
	10/18/2016	0.0	3.3
	11/23/2016	0.0	1.6
	12/28/2016	0.0	1.9
	1/11/2017	0.0	5.8
	1/17/2017	0.0	2.6
	1/25/2017	0.0	1.6
	2/7/2017	0.0	1.1
	2/21/2017	0.0	4.3
	3/1/2017	0.0	20.8
	3/10/2017	0.0	2.4
	3/23/2017	0.0	2.6
	4/4/2017	0.0	270.4
	4/19/2017	0.0	20.1
	5/25/2017	0.0	115.0
	6/1/2017	0.0	71.0
	6/8/2017	0.0	7.0
	6/21/2017	0.0	59.7
	6/29/2017	0.0	83.1
	7/11/2017	0.0	75.2
7/20/2017	0.0	61.3	
7/28/2017	0.0	1.7	
8/10/2017	0.0	41.6	
8/18/2017	0.0	58.7	
9/8/2017	0.0	36.1	
9/18/2017	0.0	81.9	
10/3/2017	0.0	2.8	
10/17/2017	0.0	0.9	
10/27/2017	0.0	6.8	
11/2/2017	0.0	28.7	
11/9/2017	0.0	0.5	
11/20/2017	0.0	1.8	
11/28/2017	0.0	3.4	
12/8/2017	0.0	3.8	
1/4/2018	0.0	1.1	
1/11/2018	0.0	3.1	
1/22/2018	0.0	9.4	
1/30/2018	0.0	0.2	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 21 (continued)	2/7/2018	0.0	2.2
	2/14/2018	0.0	7.9
	2/21/2018	0.0	29.6
	2/28/2018	0.0	38.4
	3/7/2018	0.0	1.8
	3/14/2018	0.0	4.1
	3/21/2018	0.0	2.2
	3/29/2018	0.0	14.6
	4/3/2018	0.0	13.2
	4/11/2018	0.0	4.1
	4/18/2018	0.0	31.8
	4/26/2018	0.0	4.6
	5/2/2018	0.0	8.2
	5/9/2018	0.0	29.7
	5/15/2018	0.0	39.6
	5/23/2018	0.0	36.2
	5/31/2018	0.0	1.5
	6/6/2018	0.0	4.4
	6/13/2018	0.0	5.8
	6/21/2018	0.0	29.6
	6/28/2018	0.0	28.4
	7/3/2018	0.0	19.2
	7/12/2018	0.0	31.5
	7/18/2018	0.0	0.2
	8/1/2018	0.0	24.9
	8/8/2018	0.0	20.3
	8/15/2018	0.0	30.7
	8/22/2018	0.0	20.4
	8/29/2018	0.0	30.8
	9/6/2018	0.0	37.1
	9/12/2018	0.0	29.7
	9/19/2018	0.0	21.7
	9/25/2018	0.0	168.3
	10/3/2018	0.0	56.8
	10/10/2018	0.0	17.7
	10/17/2018	0.0	43.8
	10/24/2018	0.0	52.7
	10/31/2018	0.0	68.2
	11/7/2018	0.0	174.0
	11/14/2018	0.0	192.7
11/27/2018	0.0	153.0	
12/4/2018	0.0	6.5	
12/12/2018	0.0	158.0	
12/26/2018	0.0	49.6	
1/3/2019	0.0	193.0	
1/10/2019	0.0	97.1	
1/16/2019	0.0	214.0	
1/24/2019	0.0	244.0	
1/30/2019	0.0	172.0	
2/6/2019	0.0	407.1	
2/15/2019	0.0	168.2	
2/21/2019	0.0	0.9	
2/27/2019	0.0	15.1	
3/6/2019	0.0	19.4	
3/13/2019	0.0	101.2	
3/20/2019	0.0	190.4	
3/27/2019	0.0	42.7	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 22	1/19/2015	0.0	63.6
	2/24/2015	0.0	54.2
	3/23/2015	0.0	52.0
	4/27/2015	0.0	48.0
	5/27/2015	0.0	30.0
	6/29/2015	0.0	0.1
	7/28/2015	0.0	28.5
	8/24/2015	0.0	32.1
	9/30/2015	0.0	37.4
	10/29/2015	0.0	39.2
	11/23/2015	0.0	3.8
	12/10/2015	0.0	30.8
	1/26/2016	0.0	2.1
	2/9/2016	0.0	27.4
	3/23/2016	0.0	3.9
	4/6/2016	0.0	44.2
	5/17/2016	0.0	3.8
	6/8/2016	0.0	0.0
	7/20/2016	0.0	0.0
	8/25/2016	0.0	0.0
	9/15/2016	0.0	6.0
	10/18/2016	0.0	6.1
	11/23/2016	0.0	1.9
	12/28/2016	0.0	0.4
	1/11/2017	0.0	17.7
	1/17/2017	0.0	23.7
	1/25/2017	0.0	525.0
	2/7/2017	0.0	105.7
	2/21/2017	0.0	210.8
	3/1/2017	0.0	754.6
	3/10/2017	0.0	79.8
	3/23/2017	0.0	82.6
	4/4/2017	0.0	1.9
	4/19/2017	0.0	0.5
	5/25/2017	0.0	0.0
	6/1/2017	0.0	0.0
	6/8/2017	0.0	40.1
	6/21/2017	0.0	0.0
	6/29/2017	0.0	0.0
	7/11/2017	0.0	0.0
7/20/2017	0.0	0.0	
7/28/2017	0.0	2.3	
8/10/2017	0.0	0.2	
8/18/2017	0.0	0.0	
9/8/2017	0.0	0.4	
9/18/2017	0.0	3.1	
10/3/2017	0.0	0.5	
10/17/2017	0.0	58.6	
10/27/2017	0.0	24.9	
11/2/2017	0.0	0.7	
11/9/2017	0.0	70.1	
11/20/2017	0.0	52.8	
11/28/2017	0.0	32.7	
12/8/2017	0.0	45.7	
1/4/2018	0.0	0.0	
1/11/2018	0.0	37.4	
1/22/2018	0.0	5.3	
1/30/2018	0.0	4.6	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 22 (continued)	2/7/2018	0.0	22.5
	2/14/2018	0.0	68.3
	2/21/2018	0.0	115.8
	2/28/2018	0.0	113.5
	3/7/2018	0.0	48.1
	3/14/2018	0.0	70.3
	3/21/2018	0.0	58.2
	3/29/2018	0.0	79.6
	4/3/2018	0.0	200.0
	4/11/2018	0.0	101.9
	4/18/2018	0.0	0.3
	4/26/2018	0.0	2.7
	5/2/2018	0.0	0.1
	5/9/2018	0.0	0.0
	5/15/2018	0.0	0.0
	5/23/2018	0.0	0.0
	5/31/2018	0.0	0.0
	6/6/2018	0.0	0.0
	6/13/2018	0.0	0.0
	6/21/2018	0.0	0.0
	6/28/2018	0.0	0.0
	7/3/2018	0.0	0.0
	7/12/2018	0.0	0.1
	7/18/2018	0.0	0.0
	8/1/2018	0.0	0.0
	8/8/2018	0.0	0.0
	8/15/2018	0.0	0.0
	8/22/2018	0.0	0.0
	8/29/2018	0.0	0.0
	9/6/2018	0.0	0.0
	9/12/2018	0.0	0.0
	9/19/2018	0.0	0.0
	9/25/2018	0.0	0.0
	10/3/2018	0.0	0.0
	10/10/2018	0.0	0.0
	10/17/2018	0.0	0.0
	10/24/2018	0.0	0.0
	10/31/2018	0.0	0.0
	11/7/2018	0.0	81.7
	11/14/2018	0.0	115.0
11/27/2018	0.0	163.0	
12/4/2018	0.0	58.1	
12/12/2018	0.0	217.0	
12/26/2018	0.0	15.6	
1/3/2019	0.0	473.0	
1/10/2019	0.0	252.0	
1/16/2019	0.0	581.0	
1/24/2019	0.0	407.0	
1/30/2019	0.0	414.0	
2/6/2019	0.0	67.8	
2/15/2019	0.0	180.9	
2/21/2019	0.0	4.6	
2/27/2019	0.0	19.8	
3/6/2019	0.0	34.1	
3/13/2019	0.0	28.9	
3/20/2019	0.0	70.1	
3/27/2019	0.0	1.3	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 23	1/19/2015	0.0	43.7
	2/24/2015	0.0	2.4
	3/23/2015	0.0	48.0
	4/27/2015	0.0	40.0
	5/27/2015	0.0	6.1
	6/29/2015	0.0	0.3
	7/28/2015	0.0	9.2
	8/24/2015	0.0	8.3
	9/30/2015	0.0	9.3
	10/29/2015	0.0	10.1
	11/23/2015	0.0	19.4
	12/10/2015	0.0	23.1
	1/26/2016	0.0	15.7
	2/9/2016	0.0	24.1
	3/23/2016	0.0	15.1
	4/6/2016	0.0	15.3
	5/17/2016	0.0	0.0
	6/8/2016	0.0	0.2
	7/20/2016	0.0	0.2
	8/25/2016	0.0	0.0
	9/15/2016	0.0	2.3
	10/18/2016	0.0	0.0
	11/23/2016	0.0	1.8
	12/28/2016	0.0	0.8
	1/11/2017	0.0	25.2
	1/17/2017	0.0	7.3
	1/25/2017	0.0	2.3
	2/7/2017	0.0	6.6
	2/21/2017	0.0	0.7
	3/1/2017	0.0	2.1
	3/10/2017	0.0	33.8
	3/23/2017	0.0	27.4
	4/4/2017	0.0	10.3
	4/19/2017	0.0	0.0
	5/25/2017	0.0	0.0
	6/1/2017	0.0	0.0
	6/8/2017	0.0	14.4
	6/21/2017	0.0	0.0
	6/29/2017	0.0	0.0
	7/11/2017	0.0	0.0
7/20/2017	0.0	0.2	
7/28/2017	0.0	0.0	
8/10/2017	0.0	0.0	
8/18/2017	0.0	0.0	
9/8/2017	0.0	0.3	
9/18/2017	0.0	3.5	
10/3/2017	0.0	2.3	
10/17/2017	0.0	3.2	
10/27/2017	0.0	1.6	
11/2/2017	0.0	2.8	
11/9/2017	0.0	21.4	
11/20/2017	0.0	1.2	
11/28/2017	0.0	1.3	
12/8/2017	0.0	4.0	
1/4/2018	0.0	0.0	
1/11/2018	0.0	8.1	
1/22/2018	0.0	20.1	
1/30/2018	0.0	13.1	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 23 (continued)	2/7/2018	0.0	19.1
	2/14/2018	0.0	25.1
	2/21/2018	0.0	9.2
	2/28/2018	0.0	26.1
	3/7/2018	0.0	73.4
	3/14/2018	0.0	6.8
	3/21/2018	0.0	3.7
	3/29/2018	0.0	102.8
	4/3/2018	0.0	88.9
	4/11/2018	0.0	7.8
	4/18/2018	0.0	0.1
	4/26/2018	0.0	2.0
	5/2/2018	0.0	0.0
	5/9/2018	0.0	0.5
	5/15/2018	0.0	1.9
	5/23/2018	0.0	0.6
	5/31/2018	0.0	0.0
	6/6/2018	0.0	0.0
	6/13/2018	0.0	0.0
	6/21/2018	0.0	0.0
	6/28/2018	0.0	0.9
	7/3/2018	0.0	2.3
	7/12/2018	0.0	12.6
	7/18/2018	0.0	9.5
	8/1/2018	0.0	0.0
	8/8/2018	0.0	0.0
	8/15/2018	0.0	0.0
	8/22/2018	0.0	0.0
	8/29/2018	0.0	0.0
	9/6/2018	0.0	0.0
	9/12/2018	0.0	0.0
	9/19/2018	0.0	0.0
	9/25/2018	0.0	0.0
	10/3/2018	0.0	0.0
	10/10/2018	0.0	0.0
	10/17/2018	0.0	0.2
	10/24/2018	0.0	0.0
	10/31/2018	0.0	0.0
	11/7/2018	0.0	425.0
	11/14/2018	0.0	501.0
	11/27/2018	0.0	191.0
	12/4/2018	0.0	29.5
12/12/2018	0.0	518.0	
12/26/2018	0.0	45.4	
1/3/2019	0.0	590.0	
1/10/2019	0.0	382.0	
1/16/2019	0.0	317.0	
1/24/2019	0.0	723.0	
1/30/2019	0.0	591.0	
2/6/2019	0.0	368.7	
2/15/2019	0.0	205.1	
2/21/2019	0.0	65.7	
2/27/2019	0.0	34.4	
3/6/2019	0.0	61.7	
3/13/2019	0.0	23.1	
3/20/2019	0.0	23.8	
3/27/2019	0.0	1.4	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 24	1/19/2015	0.0	63.2
	2/24/2015	0.0	5.1
	3/23/2015	0.0	83.0
	4/27/2015	0.0	71.0
	5/27/2015	0.0	10.6
	6/29/2015	0.0	1.0
	7/28/2015	0.0	11.5
	8/24/2015	0.0	11.5
	9/30/2015	0.0	10.2
	10/29/2015	0.0	10.6
	11/23/2015	0.0	23.1
	12/10/2015	0.0	24.3
	1/26/2016	0.0	24.9
	2/9/2016	0.0	19.9
	3/23/2016	0.0	26.5
	4/6/2016	0.0	29.0
	5/17/2016	0.0	0.0
	6/8/2016	0.0	0.0
	7/20/2016	0.0	2.1
	8/25/2016	0.0	0.0
	9/15/2016	0.0	0.3
	10/18/2016	0.0	0.0
	11/23/2016	0.0	1.6
	12/28/2016	0.0	0.5
	1/11/2017	0.0	38.2
	1/17/2017	0.0	42.1
	1/25/2017	0.0	0.2
	2/7/2017	0.0	1.8
	2/21/2017	0.0	0.5
	3/1/2017	0.0	0.0
	3/10/2017	0.0	2.4
	3/23/2017	0.0	75.1
	4/4/2017	0.0	0.0
	4/19/2017	0.0	0.0
	5/25/2017	0.0	0.0
	6/1/2017	0.0	0.0
	6/8/2017	0.0	1.5
	6/21/2017	0.0	0.0
	6/29/2017	0.0	0.0
	7/11/2017	0.0	0.0
7/20/2017	0.0	0.0	
7/28/2017	0.0	0.0	
8/10/2017	0.0	0.0	
8/18/2017	0.0	0.0	
9/8/2017	0.0	0.0	
9/18/2017	0.0	0.0	
10/3/2017	0.0	2.1	
10/17/2017	0.0	2.8	
10/27/2017	0.0	2.1	
11/2/2017	0.0	5.7	
11/9/2017	0.0	17.6	
11/20/2017	0.0	6.4	
11/28/2017	0.0	18.2	
12/8/2017	0.0	37.1	
1/4/2018	0.0	9.2	
1/11/2018	0.0	29.7	
1/22/2018	0.0	16.8	
1/30/2018	0.0	40.7	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 24 (continued)	2/7/2018	0.0	30.6
	2/14/2018	0.0	37.6
	2/21/2018	0.0	0.0
	2/28/2018	0.0	0.7
	3/7/2018	0.0	40.8
	3/14/2018	0.0	55.2
	3/21/2018	0.0	15.9
	3/29/2018	0.0	5.1
	4/3/2018	0.0	28.7
	4/11/2018	0.0	12.6
	4/18/2018	0.0	1.9
	4/26/2018	0.0	1.0
	5/2/2018	0.0	0.0
	5/9/2018	0.0	0.2
	5/15/2018	0.0	0.0
	5/23/2018	0.0	0.0
	5/31/2018	0.0	0.0
	6/6/2018	0.0	0.0
	6/13/2018	0.0	0.0
	6/21/2018	0.0	0.0
	6/28/2018	0.0	0.0
	7/3/2018	0.0	0.0
	7/12/2018	0.0	0.3
	7/18/2018	0.0	0.4
	8/1/2018	0.0	0.0
	8/8/2018	0.0	0.0
	8/15/2018	0.0	0.0
	8/22/2018	0.0	0.0
	8/29/2018	0.0	0.0
	9/6/2018	0.0	0.0
	9/12/2018	0.0	0.0
	9/19/2018	0.0	0.0
	9/25/2018	0.0	0.0
	10/3/2018	0.0	0.0
	10/10/2018	0.0	0.0
	10/17/2018	0.0	1.1
	10/24/2018	0.0	0.0
	10/31/2018	0.0	0.0
	11/7/2018	0.0	11.5
	11/14/2018	0.0	83.0
11/27/2018	0.0	275.0	
12/4/2018	0.0	61.8	
12/12/2018	0.0	327.0	
12/26/2018	0.0	48.5	
1/3/2019	0.0	798.0	
1/10/2019	0.0	515.0	
1/16/2019	0.0	633.0	
1/24/2019	0.0	518.0	
1/30/2019	0.0	382.0	
2/6/2019	0.0	78.0	
2/15/2019	0.0	290.4	
2/21/2019	0.0	28.2	
2/27/2019	0.0	57.1	
3/6/2019	0.0	49.8	
3/13/2019	0.0	20.8	
3/20/2019	0.0	19.1	
3/27/2019	0.0	55.7	

Notes: PID = Photoionization Detector ppm = parts per million

TABLE 4
GROUNDWATER TREATMENT SYSTEM
DISCHARGE SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA
NPDES Permit # MDG915958

Month Year	Monthly Discharge Volume (gallons)	Cumulative Discharge Volume (gallons)
January 2015	51,520	51,520
February 2015	41,600	93,120
March 2015	31,090	124,210
April 2015	18,940	143,150
May 2015	23,180	166,330
June 2015	36,940	203,270
July 2015	24,170	227,440
August 2015	29,460	256,900
September 2015	24,570	281,470
October 2015	18,540	300,010
November 2015	27,850	327,860
December 2015	45,180	373,040
January 2016	35,570	408,610
February 2016	33,300	441,910
March 2016	38,030	479,940
April 2016	54,020	533,960
May 2016	75,280	609,240
June 2016	54,560	663,800
July 2016	37,250	701,050
August 2016	32,410	733,460
September 2016	39,190	772,650
October 2016	34,620	807,270
November 2016	42,680	849,950
December 2016	45,380	895,330
January 2017	57,450	952,780
February 2017	30,100	982,880
March 2017	35,940	1,018,820
April 2017	32,050	1,050,870
May 2017	50,660	1,101,530
June 2017	48,510	1,150,040
July 2017	67,450	1,217,490
August 2017	41,410	1,258,900
September 2017	52,870	1,311,770
October 2017	47,560	1,359,330
November 2017	35,300	1,394,630
December 2017	38,470	1,433,100
January 2018	51,060	1,484,160
February 2018	29,770	1,513,930
March 2018	41,760	1,555,690
April 2018	37,050	1,592,740
May 2018	37,120	1,629,860
June 2018	36,080	1,665,940
July 2018	32,020	1,697,960
August 2018	43,500	1,741,460
September 2018	44,960	1,786,420
October 2018	52,550	1,838,970
November 2018	42,510	1,881,480
December 2018	40,490	1,921,970

TABLE 4
GROUNDWATER TREATMENT SYSTEM
DISCHARGE SUMMARY
Ridgely Manor Park
Towson, MD
Case No. 1991-2100-BA
NPDES Permit # MDG915958

Month Year	Monthly Discharge Volume (gallons)	Cumulative Discharge Volume (gallons)
January 2019	43,930	1,965,900
February 2019	46,710	2,012,610
March 2019	45,230	2,057,840

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	1/19/2015	1.1	7.7	77.6	107	193.4	11.8	1.42	0.898	2.318	49.3
EFF	1/19/2015	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND
INN	1/26/2015	0.48 (J)	4.4	35.2	68.7	108.78 (J)	ND	0.973	0.454	1.427	35.1
EFF	1/26/2015	0.26 (J)	2.3	15.7	38.5	56.76 (J)	6.8	0.418	0.267	0.685	12.3
INN	2/4/2015	1.2	10.9	96.1	173	281.2	12.4	1.70	1.21	2.91	60.1
EFF	2/4/2015	ND	0.74 (J)	1.6	16.0	18.34 (J)	7.0	ND	ND	ND	0.84 (J)
INN	2/20/2015	0.90	8.7	81.5	167	258.10	14.5	1.79	0.826	2.616	62.5
EFF	2/20/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	3/3/2015	0.77	8.6	71.1	152	232.47	10.9	1.51	0.573	2.083	47.3
EFF	3/3/2015	ND	ND	ND	ND	ND	0.88 (J)	ND	ND	ND	ND
INF	3/30/2015	1.6	15.3	100	352	468.9	11.5	2.33	0.779	3.109	51.3
EFF	3/30/2015	ND	ND	ND	ND	ND	0.97 (J)	ND	ND	ND	ND
INF	4/7/2015	1.9	16.7	143	439	600.6	12.5	3.52	0.870	4.390	94.1
EFF	4/7/2015	ND	ND	ND	ND	ND	0.59 (J)	ND	ND	ND	ND
INF	4/27/2015	1.7	ND	ND	ND	1.7	ND	2.51	1.24	3.75	79.7
EFF	4/27/2015	ND	ND	ND	ND	ND	0.41 (J)	ND	ND	ND	ND
INN	5/4/2015	1.4	15.3	117	340	473.7	11.9	2.02	0.873	2.893	76.6
EFF	5/4/2015	ND	ND	ND	ND	ND	1.0	ND	0.192	0.192	ND
INF	5/18/2015	1.7	20.9	141	417	580.6	12.8	3.58	1.17	4.75	71.3
EFF	5/18/2015	ND	ND	ND	0.37 (J)	0.37 (J)	2.2	ND	ND	ND	ND
INF	6/2/2015	0.83	8.7	75.3	250	334.83	6.2	1.45	0.461	1.911	38.2
EFF	6/2/2015	ND	ND	ND	ND	ND	1.5	ND	0.114	0.114	ND
INF	6/23/2015	1.6	14.7	116	343	475.3	ND	1.45	0.937	2.387	69.3
EFF	6/23/2015	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	7/6/2015	1.7	13.1	109	355	478.8	11.6	2.20	1.02	3.22	67.4
EFF	7/6/2015	ND	ND	ND	0.27 (J)	0.27 (J)	3.8	ND	0.212	0.212	ND
INN	7/21/2015	1.4	10.4	81.4	278	371.2	7.0	2.03	0.943	2.973	58.7
EFF	7/21/2015	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
INN	8/3/2015	2.3	17.7	125	430	575.0	12.4	3.08	0.812	3.892	72.9
EFF	8/3/2015	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND
INN	8/20/2015	1.1	5.9	22.4	81.3	110.7	5.3	0.476	0.206	0.682	3.6 (J)
EFF	8/20/2015	ND	ND	ND	ND	ND	2.5	ND	0.239	0.239	ND
INN	9/9/2015	3.1	25.5	144	446	618.6	11.2	3.15	1.27	4.42	50.8
EFF	9/9/2015	ND	ND	ND	ND	ND	2.4	ND	0.448	0.448	ND
INN	9/22/2015	2.6	14.4	93.4	272	382.4	8.5	3.16	0.971	4.131	65.8
EFF	9/22/2015	ND	ND	ND	ND	ND	2.6	ND	0.0953	0.0953	ND
INN	10/7/2015	3.1	14.7	105	298	420.8	10.3	2.09	0.290	2.380	58.1
EFF	10/7/2015	ND	ND	ND	ND	ND	2.1	ND	0.0987	0.0987	ND
INN	10/13/2015	2.8	11.7	88.8	263	366.3	10.2	2.82	1.40	4.22	48.0
EFF	10/13/2015	ND	ND	ND	ND	ND	1.9	ND	0.105	0.105	ND
INN	11/10/2015	2.0	9.1	71.9	177	260.0	ND	1.98	0.807	2.787	35.7
EFF	11/10/2015	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INN	12/2/2015	1.9	4.3	48.7	106	160.9	7.3	1.02	0.502	1.522	39.7
EFF	12/2/2015	ND	ND	ND	ND	ND	3.8	ND	ND	ND	ND
INN	12/16/2015	1.8	5.0	57.4	111	175.2	7.6	1.17	0.527	1.697	51.0
EFF	12/16/2015	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND
INN	1/6/2016	2.4	7.0	86.8	144	240.2	7.2	1.90	0.627	2.527	41.2
EFF	1/6/2016	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	1/12/2016	1.2	3.7	36.5	83.2	124.6	5.4	1.31	0.376	1.686	21.0
EFF	1/12/2016	ND	ND	ND	ND	ND	3.1	ND	ND	ND	ND
INN	2/3/2016	0.86	3.3	26.6	66.1	96.86	3.2	0.668	0.340	1.008	17.5
EFF	2/3/2016	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INN	2/9/2016	2.6	11.8	96.2	219	329.6	7.1	1.79	0.665	2.455	49.6
EFF	2/9/2016	ND	ND	ND	ND	ND	2.1	ND	0.0850	0.0850	ND
INN	3/3/2016	3.1	12.2	112	367	494.3	7.6	2.71	0.717	3.427	68.5
EFF	3/3/2016	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND
INN	3/9/2016	3.1	14.1	125	377	519.2	6.6	3.03	0.665	3.695	76.7
EFF	3/9/2016	ND	ND	ND	0.78 (J)	0.78 (J)	6.2	ND	ND	ND	ND
INN	4/6/2016	4.6	35.1	156	505	700.7	7.3	3.78	0.947	4.727	75.3
EFF	4/6/2016	ND	0.32 (J)	0.75 (J)	2.3	3.37 (J)	2.4	ND	ND	ND	ND
INN	4/12/2016	4.3	29.0	109	439	581.3	7.4	2.83	0.994	3.824	74.9
EFF	4/12/2016	ND	0.17 (J)	0.41 (J)	1.4	1.98 (J)	1.4	ND	ND	ND	ND
INN	5/4/2016	2.7	23.1	123	358	506.8	5.0	2.43	0.656	3.086	63.2
EFF	5/4/2016	ND	0.40 (J)	0.94 (J)	3.6	4.94 (J)	3.7	ND	ND	ND	ND
INN	5/12/2016	3.8	29.2	166	388	587.0	7.4	3.28	1.40	4.68	76.1
EFF	5/12/2016	0.22 (J)	0.58 (J)	1.2	3.1	5.1 (J)	5.8	ND	0.269	0.269	ND
INN	6/8/2016	4.6	33.2	187	466	690.8	7.3	3.24	0.777	4.017	86.0
EFF	6/8/2016	0.50	1.4	3.5	10.4	15.80	7.2	0.226	ND	0.226	ND
INN	6/14/2016	4.9	30.1	164	422	621.0	7.2	2.94	0.822	3.762	74.4
EFF	6/14/2016	0.83	3.0	8.1	20.5	32.43	4.9	0.316	ND	0.316	ND
INN	7/7/2016	3.9	22.1	144	353	523.0	ND	2.64	1.11	3.75	73.8
EFF	7/7/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	7/12/2016	2.2	11.6	68.8	203	285.6	3.5	1.66	0.957	2.617	42.9
EFF	7/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	8/3/2016	3.0	7.0	36.3	147	193.3	4.7	1.28	0.810	2.090	41.4
EFF	8/3/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	8/17/2016	3.5	12.4	81.5	273	370.4	5.2	2.10	0.792	2.892	63.1
EFF	8/17/2016	ND	ND	ND	ND	0.00	0.70 (J)	ND	ND	ND	ND
INN	9/8/2016	4.3	10.2	88.9	263	366.4	5.6	2.26	0.802	3.062	61.0
EFF	9/8/2016	ND	ND	0.36 (J)	0.40 (J)	0.76 (J)	1.4	ND	ND	ND	ND
INN	9/14/2016	3.8	8.4	84.9	218	315.1	4.7	1.92	1.06	2.980	58.2
EFF	9/14/2016	ND	ND	0.30 (J)	0.59 (J)	0.89 (J)	0.84	ND	ND	ND	ND
INN	10/12/2016	4.4	5.0	15.4	79.2	104.0	5.4	1.24	0.704	1.94	6.1
EFF	10/12/2016	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND
INN	10/18/2016	4.9	6.8	46.0	177	234.7	4.9	2.72	1.06	3.78	53.7
EFF	10/18/2016	ND	ND	0.36 (J)	0.50 (J)	0.86 (J)	1.80	ND	ND	ND	ND
INN	11/3/2016	6.7	7.4	61.0	164	239.1	4.4	2.89	1.01	3.90	65.3
EFF	11/3/2016	ND	ND	0.35 (J)	ND	0.35 (J)	1.70	ND	ND	ND	ND
INN	11/8/2016	7.5	8.1	28.3	193	236.9	4.1	3.75	1.36	5.11	83.1
EFF	11/8/2016	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND
INN	12/7/2016	2.2	1.4	10.4	23.9	37.9	3.5	0.971	0.329	1.300	8.3
EFF	12/7/2016	ND	ND	ND	ND	ND	3.10	ND	ND	ND	ND
INN	12/15/2016	2.9	2.3	24.2	26.7	56.1	4.3	ND	0.486	0.486	18.2
EFF	12/15/2016	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND
INN	1/4/2017	2.7	5.3	26.6	34.7	69.3	4.7	1.12	0.46	1.58	13.8
EFF	1/4/2017	ND	ND	ND	ND	ND	1.40	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	1/11/2017	3.5	4.7	44.2	43.1	95.5	5.4	1.12	0.367	1.49	18.8
EFF	1/11/2017	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND
INN	2/7/2017	3.9	4.3	53.6	59.0	120.8	5.5	1.58	0.464	2.04	21.1
EFF	2/7/2017	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INN	2/21/2017	3.1	3.3	47.1	60.5	114.0	5.2	1.62	0.394	2.01	17.5
EFF	2/21/2017	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND
INN	3/1/2017	3.0	3.3	49.6	65.0	120.9	5.3	1.54	0.322	1.86	17.0
EFF	3/1/2017	ND	ND	0.24 (J)	ND	0.24 (J)	2.5	ND	ND	ND	ND
INN	3/10/2017	2.9	3.0	40.3	59.1	105.3	5.8	1.09	0.444	1.53	21.0
EFF	3/10/2017	0.28 (J)	ND	0.58 (J)	1.2	2.06 (J)	2.5	0.123	ND	0.123	ND
INN	4/4/2017	2.1	4.7	53	187	246.8	6.8	2.07	0.708	2.778	24.9
EFF	4/4/2017	0.31 (J)	ND	0.51 (J)	2.8	3.62 (J)	3.9	0.113	ND	0.113	ND
INN	4/11/2017	2.3	6.2	59.2	168	235.7	8.1	1.63	1.140	2.770	31.8
EFF	4/11/2017	0.55	0.37 (J)	0.95 (J)	4.9	6.77 (J)	3.4	ND	0.114	0.114	ND
INN	5/3/2017	2.0	2.6	43.7	114	162.3	6.2	1.53	0.905	2.435	34.0
EFF	5/3/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	5/16/2017	1.6	2.2	31.6	107	142.4	6.3	1.09	0.813	1.903	34.3
EFF	5/16/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	6/1/2017	2.5	4.0	50.5	202	259.0	5.9	1.95	1.03	2.98	47.1
EFF	6/1/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	6/8/2017	2.7	6.0	76	440	524.7	5.1	3.34	1.84	5.18	72.5
EFF	6/8/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	7/11/2017	1.4	2.8	29.6	159	192.8	4.5	0.857	1.63	2.49	41.4
EFF	7/11/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	7/20/2017	1.4	2.8	31.3	167	202.5	4.2	1.23	1.47	2.70	58.5
EFF	7/20/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9
INN	8/10/2017	1.8	3.2	30.6	129	164.6	4.8	1.06	0.991	2.051	33.8
EFF	8/10/2017	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND
INN	8/18/2017	0.7	1.4	11.9	47.3	61.3	3.4	0.39	0.64	1.02	23.5
EFF	8/18/2017	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND
INN	9/7/2017	2.5	4.6	42.6	238	287.7	ND	1.97	2.19	4.16	82.5
EFF	9/7/2017	ND	1.4	0.38 (J)	2.4	4.18 (J)	243.0	ND	ND	ND	ND
INN	9/18/2017	3.6	6.5	57.0	167	234.1	4.2	1.23	1.47	2.70	68.9
EFF	9/18/2017	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND
INN	10/3/2017	3.4	5.5	44.2	157	210.1	3.7	1.82	1.22	3.04	64.3
EFF	10/3/2017	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
INN	10/17/2017	2.3	3.5	31.4	95.2	132.4	3.9	1.24	0.755	2.00	34.8
EFF	10/17/2017	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
INN	11/2/2017	2.7	3.0	19.3	86.1	111.1	5.9	1.05	2.780	3.83	24.9
EFF	11/2/2017	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INN	11/9/2017	1.4	1.5	10.3	47.1	60.3	4.4	0.643	1.20	1.84	13.4
EFF	11/9/2017	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INN	12/8/2017	2.9	3.3	42.1	75.2	123.5	5.4	1.18	1.04	2.22	33.8
EFF	12/8/2017	ND	ND	ND	0.22 (J)	0.22 (J)	2.3	ND	ND	ND	ND
INN	12/21/2017	3.4	3.3	33.0	54.4	94.1	5.7	0.871	4.72	5.59	29.0
EFF	12/21/2017	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND
INN	1/11/2018	1.1	0.98 (J)	9.3	17.2	28.6 (J)	5.2	0.315	1.72	2.035	17.5
EFF	1/11/2018	ND	ND	0.24 (J)	0.42 (J)	0.66 (J)	2.7	ND	0.0893	0.0893	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	1/22/2018	2.5	2.2	22.3	32.2	59.2	5.2	0.358	1.48	1.838	15.2
EFF	1/22/2018	ND	ND	ND	ND	ND	2.2	ND	0.133	0.133	ND
INN	2/7/2018	2.0	2.1	18.7	33.1	55.9	5.8	0.656	1.22	1.876	14.3
EFF	2/7/2018	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
INN	2/14/2018	1.3	2.5	17.1	44.9	65.8	6.3	0.731	1.05	1.781	8.4
EFF	2/14/2018	ND	ND	0.33 (J)	0.99 (J)	1.32 (J)	3.3	ND	0.108	0.108	ND
INN	3/7/2018	2.1	7.8	49.3	137	196.2	6.3	0.970	2.49	3.460	22.9
EFF	3/7/2018	ND	ND	0.33 (J)	1.2	1.5 (J)	3.5	ND	ND	ND	ND
INN	3/14/2018	2.3	7.6	55.2	149	214.1	5.8	1.29	1.01	2.30	28.3
EFF	3/14/2018	0.29 (J)	0.58 (J)	0.63 (J)	15.4	16.9 (J)	3.6	0.196 (J)	0.173	0.369 (J)	ND
INN	4/3/2018	2.3	6.3	59.2	162	230	6.3	1.35	0.755	2.11	27.8
EFF	4/3/2018	0.19 (J)	ND	0.60 (J)	2.5	3.3 (J)	3.0	0.110 (J)	0.0990	0.209 (J)	ND
INN	4/11/2018	2.5	5.8	70.6	188	267	5.4	1.41	0.933	2.34	31.1
EFF	4/11/2018	0.53	1.1	5.5	31.4	38.5	3.1	0.301	0.304	0.605	2.5 (J)
INN	5/2/2018	1.7	4.9	51.1	190	248	4.9	1.84	0.889	2.73	40.8
EFF	5/2/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	5/9/2018	2.8	7.6	80.5	302	393	6.8	2.15	1.46	3.61	50.6
EFF	5/9/2018	ND	ND	ND	ND	ND	ND	ND	0.179	0.179	ND
INN	6/6/2018	2.1	7.3	48.2	241	299	4.8	1.54	0.907	2.45	35.2
EFF	6/6/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	6/13/2018	2.0	6.8	39.5	214	262	4.4	1.47	0.728	2.20	34.3
EFF	6/13/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	7/3/2018	2.4	9.2	47.9	256	316	4.5	1.81	0.913	2.72	43.2
EFF	7/3/2018	ND	ND	ND	0.29 (J)	0.29 (J)	0.39 (J)	ND	ND	ND	ND
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	7/12/2018	3.0	9.5	50.9	271	334	5.2	1.82	0.728	2.55	55.6
EFF	7/12/2018	ND	ND	ND	ND	ND	0.41 (J)	ND	ND	ND	ND
INN	8/1/2018	3.0	6.6	36.2	181	227	4.6	1.58	ND	1.58	35.0
EFF	8/1/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	8/8/2018	3.9	9.0	52.8	234	300	5.6	1.81	0.851	2.66	47.2
EFF	8/8/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	9/4/2018	4.6	8.0	59.1	191	263	4.5	1.88	0.716	2.60	42.9
EFF	9/4/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	9/12/2018	4.0	5.8	43.0	181	234	4.5	1.61	0.315	1.93	34.7
EFF	9/12/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INN	10/3/2018	4.1	6.7	39.6	263	313	3.8	1.88	0.974	2.854	55.5
EFF	10/3/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.65 (J)	ND (< 0.10)	ND (< 0.050)	ND	ND (< 0.98)
INN	10/10/2018	4.0	6.3	44.6	263	317.9	3.7	1.69	0.677	2.367	52.7
EFF	10/10/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.95 (J)	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	11/7/2018	3.9	6.2	45.4	210	265.5	3.2	1.23	0.614	1.844	36.5
EFF	11/7/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.65 (J)	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	11/14/2018	2.6	3.9	25.3	158	189.8	2.4	0.850	0.672	1.522	26.3
EFF	11/14/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	0.60 (J)	ND (< 0.10)	ND (< 0.050)	ND	ND (< 0.98)
INN	12/4/2018	5.7	11.8	90.7	363	471.2	4.2	2.51	1.63	4.14	34.7
EFF	12/4/2018	ND (< 0.43)	ND (< 0.53)	1.3	5.0	6.3	0.73 (J)	ND (< 0.10)	ND (< 0.048)	ND	ND (< 0.98)
INN	12/12/2018	5.7	12.3	101	437	556.0	4.8	2.05	1.12	3.17	76.9
EFF	12/12/2018	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND	1.1	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	1/3/2019	5.1	9.9	55.4	377	447	3.9	1.94	0.707	2.65	58.1
EFF	1/3/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.98 (J)	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Ridgely Manor Park
Towson, MD
Case # 1991-2100-BA
NPDES Permit # MDG915958

Groundwater Treatment System Sample Identification	Groundwater Treatment System Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (Total) (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Total TPH (mg/L)	Naphthalene (µg/L)
INN	1/10/2019	4.8	12.3	119	439	575	3.5	2.25	1.32	3.57	76.9
EFF	1/10/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.94 (J)	ND (< 0.10)	ND (< 0.052)	ND	ND (< 0.98)
INN	2/6/2019	4.1	9.9	96.2	374	484	3.3	2.19	0.871	3.06	75.0
EFF	2/6/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.80 (J)	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	2/15/2019	2.9	6.7	61.0	280	351	2.9	2.25	0.963	3.21	39.3
EFF	2/15/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	4.5	< 6.1	1.0	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	3/6/2019	1.9	2.5	9.5	230	244	2.9	1.56	0.992	2.55	9.8
EFF	3/6/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.7	< 3.3	1.0	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)
INN	3/13/2019	3.5	7.4	44.8	350	406	3.5	2.36	1.18	3.54	43.3
EFF	3/13/2019	ND (< 0.43)	ND (< 0.53)	0.93 (J)	8.3	< 10.2	1.1	ND (< 0.10)	ND (< 0.053)	ND	ND (< 0.98)

Notes:

*Effluent Limitations listed in NPDES Permit # MDG915958

NPDES = National Pollutant Discharge Elimination System

EFF = Effluent Sample (Post-filtration)

INF = Influent Sample (Pre-filtration)

INN = Influent Sample (Pre-filtration)

ND = Constituent Compound Not Detected

NL = No limit listed in NPDES permit

NA = Not Analyzed

(J) = Laboratory-Estimated Value

µg/L = micrograms/Liter

mg/L = milligrams/Liter

MTBE = Methyl-Tertiary-Butyl Ether

Total BTEX = sum of Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

ND (< MDL) = Not Detected above Method Detection Limit