



October 18, 2021

Mr. Matthew Mueller
Maryland Department of the Environment
Remediation Division
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, Maryland 21230-1719

Via: Email and FedEx

**Re: 2021 Third Quarter Status Report
Former Hess Station #20204
1613 East Joppa Road
Towson, Maryland
Case Number 1991-2100 BA**

Dear Mr. Mueller:

Enclosed please find the above-referenced report prepared by Earth Systems, Inc (ESI). ESI is the new consultant for this project and is submitting this report on behalf of Hess Corporation. This report summarizes the results of the groundwater management system vapor screening, operations and maintenance (O&M), and discharge sampling events conducted during the Third Quarter of 2021.

Should you have any questions or require any additional information, please feel free to contact me by telephone at (610) 509-5153 or via email at jfox@earthsys.net. If you have any questions relating to the project, please contact John Schenkewitz of Hess Corporation at (609) 406-3969.

Sincerely,
Earth Systems, Inc.

A handwritten signature in blue ink that reads "Jeremy L. Fox". The signature is written in a cursive style.

Jeremy L. Fox
Operations Manger

Enclosure

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

2021 THIRD QUARTER STATUS REPORT

FORMER HESS STATION #20204
1613 East Joppa Road
Towson, Maryland

Case Number 1991-2100 BA

October 18, 2021

Prepared for:



Hess Corporation

*Trenton-Mercer Airport
601 Jack Stephan Way
West Trenton, New Jersey 08628*

Prepared By:



Bethlehem, PA

INTRODUCTION

The following is the 2021 Third Quarter Site Status Report for Former Hess Station #20204, located at 1613 East Joppa Road in Towson, Maryland. A semi-annual groundwater monitoring and sampling event was not conducted this 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 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 Third Quarter of 2021, 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 weekly basis. Post-treatment discharge 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.

GENERAL INFORMATION

<u>Site:</u>	Former Hess Station #20204 – Towson, MD (See Figure 1)
<u>Sampling Frequency:</u>	Semi-Annual
<u>Reporting Frequency:</u>	Quarterly

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
<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 Fourth Quarter of 2021. System O&M events and discharge sampling events are scheduled to continue weekly and twice monthly, respectively, during the Fourth Quarter of 2021. Groundwater monitoring and sampling will continue on a semi-annual basis.

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

Appendix:

Remediation System Laboratory Analytical Reports

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

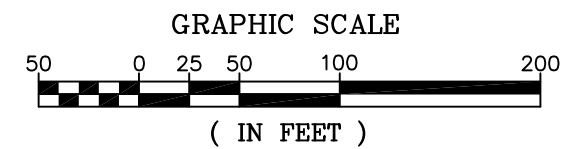
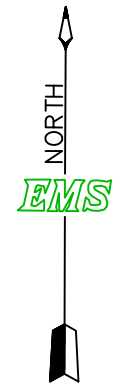
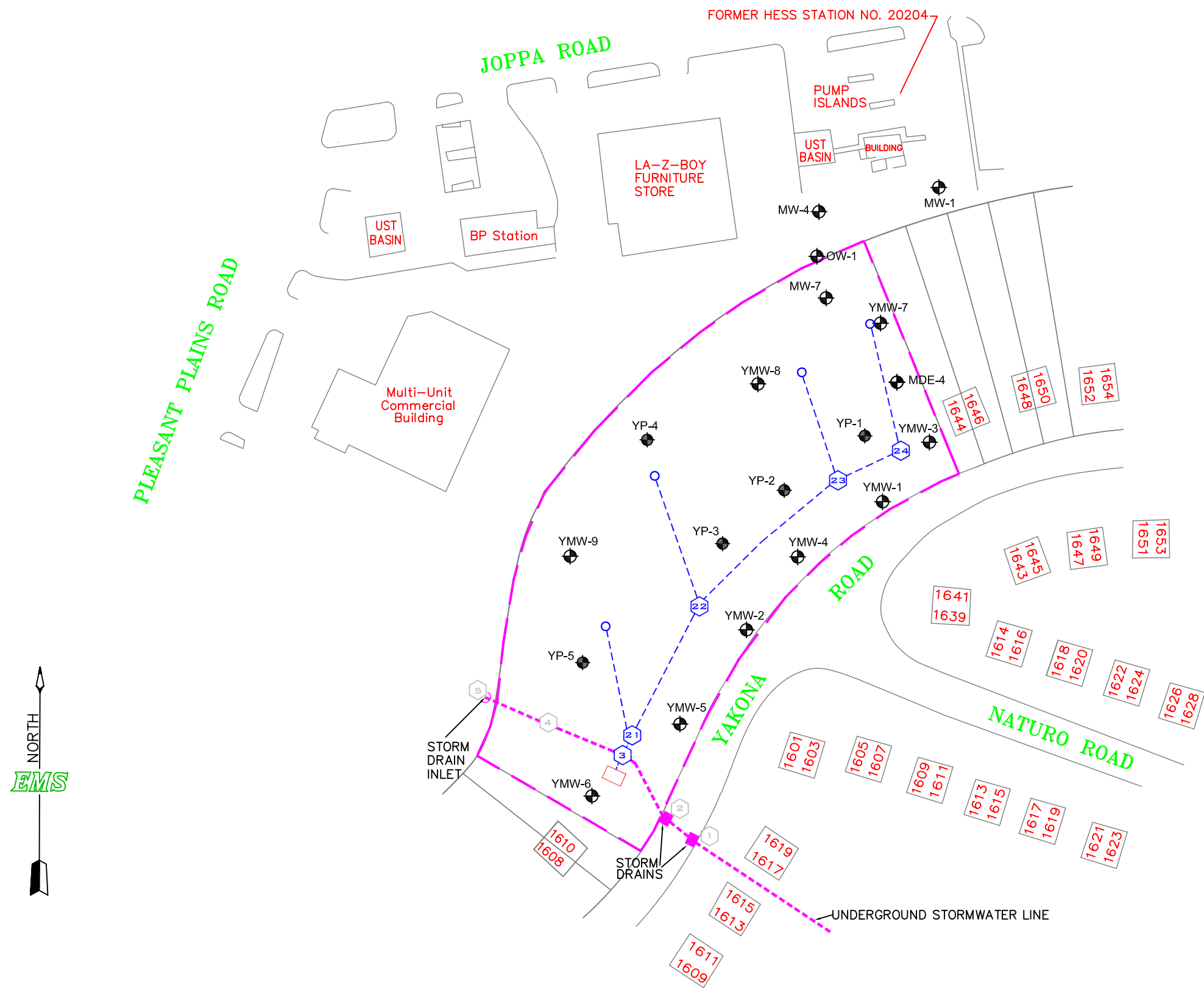


FIGURE 1
SITE PLAN
FORMER HESS STATION #20204
1613 East Joppa Road
Towson, Maryland


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)
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	ND	NS	NS	NS	NS
	8/6/2001	457.11	19.17	0.00	437.94	ND	ND	ND	ND	ND	2.0	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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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 Casing: 0 to 8 feet Screen: 8 to 33 feet	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
	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
	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	16.63	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	2,360	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 GNC SG**						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	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
Casing:	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
0 to 2 feet	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
Screen:	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
2 to 14 feet	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	ND	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	ND	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	ND	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
	1/12/2011	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 (<10)	168
	12/20/2012	434.11	1.01	0.00	433.10	1.4 (J)	52.0	792	1,530	2375.4 (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	1,860	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	1,650	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 (<0.90)
	7/18/2019	433.64	2.73	0.00	430.91	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<42)	ND (<53)	ND (<0.98)
	11/13/2019	433.64	4.19	0.00	429.45	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	128	ND (<53)	ND (<2.5)
	7/8/2020	433.64	2.87	0.00	430.77	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<100)	ND (<53)	ND (<2.5)
	12/9/2020	433.64	2.59	0.00	431.05	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<100)	ND (<53)	ND (<2.5)
	6/2/2021	433.64	3.41	0.00	430.23	ND (<0.43)	ND (<0.53)	ND (<0.60)	ND (<0.59)	ND (<2.15)	ND (<0.51)	ND (<5.8)	ND (<100)	ND (<49)	ND (<2.5)
					MDE MEAT GNCSG**	5	1,000	700	10,000	NA	20	NA	47	47	0.7

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	1/19/2015	443.18	0.00	9.89	433.29	
	2/25/2015	443.18	0.00	9.99	433.19	
	Casing: 0 to 3 feet	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
	Screen: 3 to 13 feet	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	
	7/18/2019	443.18	0.00	8.11	435.07	
	11/13/2019	443.18	0.00	9.23	433.95	
	7/8/2020	443.18	0.00	8.33	434.85	
	12/9/2020	443.18	0.00	8.36	434.82	
	6/2/2021	443.18	0.00	8.68	434.50	
MW-1	1/19/2015	453.92	NM	NM	NM	
	2/25/2015	453.92	NM	NM	NM	
	Casing: Unknown	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
	Screen: Unknown	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	
	7/18/2019	453.92	0.00	16.52	437.40	
	11/13/2019	453.92	0.00	18.44	435.48	
	7/8/2020	453.92	0.00	16.57	437.35	
	12/9/2020	453.92	0.00	17.28	436.64	
	6/2/2021	453.92	0.00	17.57	436.35	

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	
7/18/2019	455.10	0.00	18.82	436.28	
11/13/2019	455.10	0.00	20.42	434.68	
7/8/2020	455.10	0.00	18.78	436.32	
12/9/2020	455.10	0.00	17.47	437.63	
6/2/2021	455.10	0.00	19.62	435.48	
MW-7 Casing: 0 to 8 feet Screen: 8 to 33 feet	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	
7/18/2019	452.69	0.00	16.97	435.72	
11/13/2019	452.69	0.00	18.28	434.41	
7/8/2020	452.69	0.00	17.12	435.57	
12/9/2020	452.69	0.00	17.51	435.18	
6/2/2021	452.69	0.00	17.62	435.07	

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	1/19/2015	455.31	0.00	19.33	435.98	
	2/25/2015	455.31	0.00	21.66	433.65	
	Casing: 0 to 9 feet	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
	Screen: 9 to 34 feet	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	
	7/18/2019	455.31	0.00	19.23	436.08	
	11/13/2019	455.31	0.00	20.66	434.65	
	7/8/2020	455.31	0.00	19.35	435.96	
	12/9/2020	455.31	0.00	19.70	435.61	
	6/2/2021	455.31	0.00	19.92	435.39	
YMW-1	1/19/2015	433.64	0.00	3.66	429.98	
	2/25/2015	433.64	0.00	4.01	429.63	
	Casing: 0 to 2 feet	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
	Screen: 2 to 14 feet	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	
	7/18/2019	433.64	0.00	2.73	430.91	
	11/13/2019	433.64	0.00	4.19	429.45	
	7/8/2020	433.64	0.00	2.87	430.77	
	12/9/2020	433.64	0.00	2.59	431.05	
	6/2/2021	433.64	0.00	3.41	430.23	

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

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YMW-2	1/19/2015	431.37	0.00	2.86	428.51	
	2/25/2015	431.37	0.00	2.84	428.53	
	Casing: 0 to 2 feet	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
	Screen: 2 to 14 feet	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	
	7/18/2019	431.37	0.00	3.01	428.36	
	11/13/2019	431.37	0.00	2.61	428.76	
	7/8/2020	431.37	0.00	1.27	430.10	
	12/9/2020	431.37	0.00	2.13	429.24	
	6/2/2021	431.37	0.00	2.55	428.82	
YMW-3	1/19/2015	440.39	0.00	8.63	431.76	
	2/25/2015	440.39	0.00	8.87	431.52	
	Casing: 0 to 4.5 feet	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
	Screen: 4.5 to 19.5 feet	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	
	7/18/2019	440.39	0.00	8.12	432.27	
	11/13/2019	440.39	0.00	8.56	431.83	
	7/8/2020	440.39	0.00	7.78	432.61	
	12/9/2020	440.39	0.00	8.01	432.38	
	6/2/2021	440.39	0.00	8.54	431.85	

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	
7/18/2019	433.72	0.00	3.79	429.93	
11/13/2019	433.72	0.00	4.16	429.56	
7/8/2020	433.72	0.00	3.53	430.19	
12/9/2020	433.72	0.00	3.57	430.15	
6/2/2021	433.72	0.00	4.07	429.65	
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	
7/18/2019	430.70	0.00	2.36	428.34	
11/13/2019	430.70	0.00	2.70	428.00	
7/8/2020	430.70	0.00	1.87	428.83	
12/9/2020	430.70	0.00	2.31	428.39	
6/2/2021	430.70	0.00	2.67	428.03	

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	
7/18/2019	432.68	0.00	4.74	427.94	
11/13/2019	432.68	0.00	5.49	427.19	
7/8/2020	432.68	0.00	4.65	428.03	
12/9/2020	432.68	0.00	4.48	428.20	
6/2/2021	432.68	0.00	5.03	427.65	
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	
7/18/2019	449.40	0.00	13.96	435.44	
11/13/2019	449.40	0.00	14.98	434.42	
7/8/2020	449.40	0.00	14.11	435.29	
12/9/2020	449.40	0.00	14.32	435.08	
6/2/2021	449.40	0.00	14.53	434.87	

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	
7/18/2019	446.91	0.00	12.57	434.34	
11/13/2019	446.91	0.00	13.63	433.28	
7/8/2020	446.91	0.00	11.71	435.20	
12/9/2020	446.91	0.00	12.76	434.15	
6/2/2021	446.91	0.00	12.99	433.92	
YMW-9 Casing: 0 to 2.5 feet Screen: 2.5 to 17.5 feet	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	
7/18/2019	436.71	0.00	5.65	431.06	
11/13/2019	436.71	0.00	5.87	430.84	
7/8/2020	436.71	0.00	5.27	431.44	
12/9/2020	436.71	0.00	4.91	431.80	
6/2/2021	436.71	0.00	5.96	430.75	

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	
7/18/2019	440.41	0.00	8.93	431.48	
11/13/2019	440.41	0.00	9.16	431.25	
7/8/2020	440.41	0.00	8.77	431.64	
12/9/2020	440.41	0.00	8.93	431.48	
6/2/2021	440.41	0.00	9.12	431.29	
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	
7/18/2019	438.35	0.00	8.03	430.32	
11/13/2019	438.35	0.00	8.16	430.19	
7/8/2020	438.35	0.00	7.53	430.82	
12/9/2020	438.35	0.00	7.97	430.38	
6/2/2021	438.35	0.00	8.12	430.23	

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

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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	
7/18/2019	436.51	0.00	4.49	432.02	
11/13/2019	436.51	0.00	5.03	431.48	
7/8/2020	436.51	0.00	4.33	432.18	
12/9/2020	436.51	0.00	4.54	431.97	
6/2/2021	436.51	0.00	4.74	431.77	
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	
7/18/2019	441.83	0.00	8.18	433.65	
11/13/2019	441.83	0.00	9.01	432.82	
7/8/2020	441.83	0.00	8.37	433.46	
12/9/2020	441.83	0.00	8.06	433.77	
6/2/2021	441.83	0.00	8.59	433.24	

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
	7/18/2019	433.65	0.00	3.83	429.82
	11/13/2019	433.65	0.00	3.96	429.69
7/8/2020	433.65	0.00	1.84	431.81	
12/9/2020	433.65	0.00	2.32	431.33	
6/2/2021	433.65	0.00	4.21	429.44	

Notes:

ft = feet

LPH = Liquid Phase Hydrocarbons

NM = Not Monitored (Well not accessible)

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
 Former Hess Station No. 20204
 1613 East Joppa Road
 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	5/27/2020	0.0	0.0
	6/3/2020	0.0	0.0
	6/10/2020	0.0	0.0
	6/17/2020	0.0	0.0
	6/25/2020	0.0	0.0
	7/1/2020	0.0	0.0
	7/9/2020	0.0	0.0
	7/15/2020	0.0	0.0
	7/22/2020	0.0	0.0
	7/29/2020	0.0	0.0
	8/5/2020	0.0	0.0
	8/12/2020	0.0	0.0
	8/19/2020	0.0	0.0
	8/25/2020	0.0	0.0
	9/2/2020	0.0	0.0
	9/9/2020	0.0	0.0
	9/16/2020	0.0	0.0
	9/23/2020	0.0	0.0
	9/30/2020	0.0	0.0
	10/7/2020	0.0	0.0
	10/14/2020	0.0	0.0
	10/21/2020	0.0	0.0
	10/28/2020	0.0	0.0
	11/4/2020	0.0	0.0
	11/11/2020	0.0	0.0
	11/19/2020	0.0	0.0
	11/24/2020	0.0	0.0
	12/2/2020	0.0	0.0
	12/10/2020	0.0	0.0
	12/15/2020	0.0	0.0
	12/22/2020	0.0	0.0
	12/29/2020	0.0	0.0
	1/6/2021	0.0	0.0
	1/13/2021	0.0	0.0
	1/21/2021	0.0	0.0
	1/28/2021	0.0	0.0
	2/3/2021	0.0	0.0
	2/9/2021	0.0	0.0
	2/15/2021	0.0	0.0
	3/3/2021	0.0	0.0
	3/8/2021	0.0	0.0
	3/17/2021	0.0	0.0
	3/24/2021	0.0	0.0
	4/1/2021	0.0	0.0
	4/7/2021	0.0	0.0
	4/14/2021	0.0	0.0
	4/21/2021	0.0	0.0
	4/27/2021	0.0	0.0
5/5/2021	0.0	0.0	
5/12/2021	0.0	0.0	
5/19/2021	0.0	0.0	
5/27/2021	0.0	0.0	
6/3/2021	0.0	0.0	
6/10/2021	0.0	0.0	
6/16/2021	0.0	0.0	
6/22/2021	0.0	0.0	
6/30/2021	0.0	0.0	
7/7/2021	0.0	0.0	
7/13/2021	0.0	0.0	
7/21/2021	0.0	0.0	
7/28/2021	0.0	0.0	
8/11/2021	0.0	0.0	
8/18/2021	0.0	0.0	
8/25/2021	0.0	0.0	
9/1/2021	0.0	0.0	
9/8/2021	0.0	0.0	
9/17/2021	0.0	0.0	
9/21/2021	0.0	0.0	
9/29/2021	0.0	0.0	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY

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

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 3	5/27/2020	0.0	0.0
	6/3/2020	0.0	0.0
	6/10/2020	0.0	0.0
	6/17/2020	0.0	0.0
	6/25/2020	0.0	0.0
	7/1/2020	0.0	0.0
	7/9/2020	0.0	0.0
	7/15/2020	0.0	0.0
	7/22/2020	0.0	0.0
	7/29/2020	0.0	0.0
	8/5/2020	0.0	0.0
	8/12/2020	0.0	0.0
	8/19/2020	0.0	0.0
	8/25/2020	0.0	0.0
	9/2/2020	0.0	0.0
	9/9/2020	0.0	0.0
	9/16/2020	0.0	0.0
	9/23/2020	0.0	0.0
	9/30/2020	0.0	0.0
	10/7/2020	0.0	0.0
	10/14/2020	0.0	0.0
	10/21/2020	0.0	0.0
	10/28/2020	0.0	0.0
	11/4/2020	0.0	0.0
	11/11/2020	0.0	0.0
	11/19/2020	0.0	0.0
	11/24/2020	0.0	0.0
	12/2/2020	0.0	0.0
	12/10/2020	0.0	0.0
	12/15/2020	0.0	0.0
	12/22/2020	0.0	0.0
	12/29/2020	0.0	17.2
	1/6/2021	0.0	0.0
	1/13/2021	0.0	0.0
	1/21/2021	0.0	0.0
	1/28/2021	0.0	0.0
	2/3/2021	0.0	0.0
	2/9/2021	0.0	0.0
	2/15/2021	0.0	0.0
	3/3/2021	0.0	0.0
	3/8/2021	0.0	0.0
	3/17/2021	0.0	0.0
	3/24/2021	0.0	0.0
	4/1/2021	0.0	0.0
	4/7/2021	0.0	0.0
4/14/2021	0.0	0.0	
4/21/2021	0.0	0.0	
4/27/2021	0.0	0.0	
5/5/2021	0.0	0.0	
5/12/2021	0.0	0.0	
5/19/2021	0.0	0.0	
5/27/2021	0.0	0.0	
6/3/2021	0.0	0.0	
6/10/2021	0.0	0.0	
6/16/2021	0.0	0.0	
6/22/2021	0.0	0.0	
6/30/2021	0.0	0.0	
7/7/2021	0.0	0.0	
7/13/2021	0.0	0.0	
7/21/2021	0.0	0.0	
7/28/2021	0.0	0.0	
8/11/2021	0.0	0.0	
8/18/2021	0.0	0.0	
8/25/2021	0.0	0.0	
9/1/2021	0.0	0.0	
9/8/2021	0.0	0.0	
9/17/2021	0.0	0.0	
9/21/2021	0.0	0.0	
9/29/2021	0.0	0.0	

**TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY**

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

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 21	5/27/2020	0.0	6.1
	6/3/2020	0.0	3.9
	6/10/2020	0.0	3.0
	6/17/2020	0.0	0.8
	6/25/2020	0.0	1.7
	7/1/2020	0.0	5.7
	7/9/2020	0.0	0.0
	7/15/2020	0.0	0.0
	7/22/2020	0.0	0.2
	7/29/2020	0.0	3.8
	8/5/2020	0.0	1.9
	8/12/2020	0.0	9.4
	8/19/2020	0.0	31.8
	8/25/2020	0.0	25.9
	9/2/2020	0.0	17.3
	9/9/2020	0.0	5.9
	9/16/2020	0.0	17.7
	9/23/2020	0.0	6.3
	9/30/2020	0.0	1.8
	10/7/2020	0.0	14.8
	10/14/2020	0.0	19.7
	10/21/2020	0.0	21.2
	10/28/2020	0.0	20.9
	11/4/2020	0.0	5.1
	11/11/2020	0.0	4.3
	11/19/2020	0.0	2.1
	11/24/2020	0.0	3.6
	12/2/2020	0.0	2.9
	12/10/2020	0.0	10.9
	12/15/2020	0.0	0.9
	12/22/2020	0.0	10.9
	12/29/2020	0.0	33.6
	1/6/2021	0.0	2.2
	1/13/2021	0.0	19.8
	1/21/2021	0.0	2.4
	1/28/2021	0.0	2.6
	2/3/2021	0.0	3.8
	2/9/2021	0.0	18.9
	2/15/2021	0.0	4.0
	3/3/2021	0.0	16.1
	3/8/2021	0.0	22.7
	3/17/2021	0.0	16.8
	3/24/2021	0.0	10.0
	4/1/2021	0.0	5.8
	4/7/2021	0.0	4.1
	4/14/2021	0.0	3.9
	4/21/2021	0.0	11.8
	4/27/2021	0.0	2.9
5/5/2021	0.0	1.5	
5/12/2021	0.0	10.7	
5/19/2021	0.0	9.7	
5/27/2021	0.0	19.1	
6/3/2021	0.0	9.1	
6/10/2021	0.0	39.2	
6/16/2021	0.0	27.1	
6/22/2021	0.0	26.8	
6/30/2021	0.0	15.8	
7/7/2021	0.0	19.4	
7/13/2021	0.0	8.9	
7/21/2021	0.0	13.8	
7/28/2021	0.0	25.2	
8/11/2021	0.0	42.1	
8/18/2021	0.0	26.2	
8/25/2021	0.0	32.1	
9/1/2021	0.0	6.8	
9/8/2021	0.0	8.7	
9/17/2021	0.0	43.6	
9/21/2021	0.0	21.7	
9/29/2021	0.0	32.7	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY

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

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 22	5/27/2020	0.0	0.0
	6/3/2020	0.0	0.0
	6/10/2020	0.0	0.0
	6/17/2020	0.0	0.0
	6/25/2020	0.0	0.0
	7/1/2020	0.0	0.0
	7/9/2020	0.0	0.0
	7/15/2020	0.0	0.0
	7/22/2020	0.0	0.8
	7/29/2020	0.0	0.0
	8/5/2020	0.0	7.4
	8/12/2020	0.0	0.0
	8/19/2020	0.0	12.7
	8/25/2020	0.0	8.8
	9/2/2020	0.0	1.8
	9/9/2020	0.0	17.2
	9/16/2020	0.0	0.0
	9/23/2020	0.0	0.9
	9/30/2020	0.0	33.9
	10/7/2020	0.0	0.0
	10/14/2020	0.0	0.0
	10/21/2020	0.0	1.7
	10/28/2020	0.0	4.4
	11/4/2020	0.0	2.7
	11/11/2020	0.0	0.9
	11/19/2020	0.0	18.5
	11/24/2020	0.0	28.1
	12/2/2020	0.0	7.6
	12/10/2020	0.0	20.9
	12/15/2020	0.0	11.6
	12/22/2020	0.0	15.8
	12/29/2020	0.0	6.3
	1/6/2021	0.0	19.1
	1/13/2021	0.0	34.7
	1/21/2021	0.0	47.3
	1/28/2021	0.0	25.8
	2/3/2021	0.0	25.9
	2/9/2021	0.0	15.1
	2/15/2021	0.0	89.1
	3/3/2021	0.0	7.9
	3/8/2021	0.0	9.1
	3/17/2021	0.0	5.5
3/24/2021	0.0	1.1	
4/1/2021	0.0	0.0	
4/7/2021	0.0	0.0	
4/14/2021	0.0	0.0	
4/21/2021	0.0	0.0	
4/27/2021	0.0	1.1	
5/5/2021	0.0	4.8	
5/12/2021	0.0	0.0	
5/19/2021	0.0	0.0	
5/27/2021	0.0	0.0	
6/3/2021	0.0	0.0	
6/10/2021	0.0	1.6	
6/16/2021	0.0	0.0	
6/22/2021	0.0	0.3	
6/30/2021	0.0	0.0	
7/7/2021	0.0	0.0	
7/13/2021	0.0	0.0	
7/21/2021	0.0	0.9	
7/28/2021	0.0	0.0	
8/11/2021	0.0	0.0	
8/18/2021	0.0	0.0	
8/25/2021	0.0	0.5	
9/1/2021	0.0	0.0	
9/8/2021	0.0	0.9	
9/17/2021	0.0	26.2	
9/21/2021	0.0	10.9	
9/29/2021	0.0	25.8	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY
 Former Hess Station No. 20204
 1613 East Joppa Road
 Towson, MD
 Case No. 1991-2100-BA

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 23	5/27/2020	0.0	0.0
	6/3/2020	0.0	0.0
	6/10/2020	0.0	0.0
	6/17/2020	0.0	0.0
	6/25/2020	0.0	0.0
	7/1/2020	0.0	0.0
	7/9/2020	0.0	0.0
	7/15/2020	0.0	0.0
	7/22/2020	0.0	1.7
	7/29/2020	0.0	0.0
	8/5/2020	0.0	0.0
	8/12/2020	0.0	0.0
	8/19/2020	0.0	27.1
	8/25/2020	0.0	13.1
	9/2/2020	0.0	2.9
	9/9/2020	0.0	12.1
	9/16/2020	0.0	0.0
	9/23/2020	0.0	2.1
	9/30/2020	0.0	29.7
	10/7/2020	0.0	0.0
	10/14/2020	0.0	0.0
	10/21/2020	0.0	0.8
	10/28/2020	0.0	8.1
	11/4/2020	0.0	25.2
	11/11/2020	0.0	17.1
	11/19/2020	0.0	31.7
	11/24/2020	0.0	10.9
	12/2/2020	0.0	12.1
	12/10/2020	0.0	13.7
	12/15/2020	0.0	26.3
	12/22/2020	0.0	10.6
	12/29/2020	0.0	17.5
	1/6/2021	0.0	37.4
	1/13/2021	0.0	26.1
	1/21/2021	0.0	59.5
	1/28/2021	0.0	34.3
	2/3/2021	0.0	60.7
	2/9/2021	0.0	61.7
	2/15/2021	0.0	56.6
	3/3/2021	0.0	51.8
	3/8/2021	0.0	40.5
	3/17/2021	0.0	14.1
	3/24/2021	0.0	17.2
	4/1/2021	0.0	2.7
	4/7/2021	0.0	0.0
4/14/2021	0.0	6.4	
4/21/2021	0.0	0.0	
4/27/2021	0.0	0.7	
5/5/2021	0.0	0.2	
5/12/2021	0.0	0.0	
5/19/2021	0.0	0.0	
5/27/2021	0.0	0.0	
6/3/2021	0.0	0.3	
6/10/2021	0.0	1.8	
6/16/2021	0.0	0.0	
6/22/2021	0.0	0.0	
6/30/2021	0.0	0.0	
7/7/2021	0.0	0.0	
7/13/2021	0.0	0.8	
7/21/2021	0.0	2.7	
7/28/2021	0.0	3.6	
8/11/2021	0.0	3.9	
8/18/2021	0.0	0.0	
8/25/2021	0.0	0.0	
9/1/2021	0.0	0.0	
9/8/2021	0.0	0.0	
9/17/2021	0.0	12.5	
9/21/2021	0.0	27.1	
9/29/2021	0.0	121.5	

TABLE 3
MONTHLY PID SCREENING RESULTS SUMMARY

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

Location (Corresponds with Site Plan)	Date	Breathing Zone Readings (ppm)	Below Grade Readings (ppm)
Manhole 24	5/27/2020	0.0	18.7
	6/3/2020	0.0	4.1
	6/10/2020	0.0	2.1
	6/17/2020	0.0	0.0
	6/25/2020	0.0	0.0
	7/1/2020	0.0	0.0
	7/9/2020	0.0	43.6
	7/15/2020	0.0	27.1
	7/22/2020	0.0	14.4
	7/29/2020	0.0	0.0
	8/5/2020	0.0	0.0
	8/12/2020	0.0	0.3
	8/19/2020	0.0	15.4
	8/25/2020	0.0	9.7
	9/2/2020	0.0	1.4
	9/9/2020	0.0	3.9
	9/16/2020	0.0	0.0
	9/23/2020	0.0	0.6
	9/30/2020	0.0	21.4
	10/7/2020	0.0	0.0
	10/14/2020	0.0	0.0
	10/21/2020	0.0	0.0
	10/28/2020	0.0	17.6
	11/4/2020	0.0	3.9
	11/11/2020	0.0	0.0
	11/19/2020	0.0	20.8
	11/24/2020	0.0	17.4
	12/2/2020	0.0	5.8
	12/10/2020	0.0	18.1
	12/15/2020	0.0	21.4
	12/22/2020	0.0	11.4
	12/29/2020	0.0	3.8
	1/6/2021	0.0	21.8
	1/13/2021	0.0	8.3
	1/21/2021	0.0	24.6
	1/28/2021	0.0	19.7
	2/3/2021	0.0	29.1
	2/9/2021	0.0	28.3
	2/15/2021	0.0	48.7
	3/3/2021	0.0	4.6
	3/8/2021	0.0	13.7
	3/17/2021	0.0	58.9
3/24/2021	0.0	41.8	
4/1/2021	0.0	5.7	
4/7/2021	0.0	0.7	
4/14/2021	0.0	0.7	
4/21/2021	0.0	0.0	
4/27/2021	0.0	1.8	
5/5/2021	0.0	0.0	
5/12/2021	0.0	0.0	
5/19/2021	0.0	0.0	
5/27/2021	0.0	0.3	
6/3/2021	0.0	1.2	
6/10/2021	0.0	1.1	
6/16/2021	0.0	0.0	
6/22/2021	0.0	0.0	
6/30/2021	0.0	0.0	
7/7/2021	0.0	0.0	
7/13/2021	0.0	3.2	
7/21/2021	0.0	0.0	
7/28/2021	0.0	0.0	
8/11/2021	0.0	0.0	
8/18/2021	0.0	0.8	
8/25/2021	0.0	0.0	
9/1/2021	0.0	0.0	
9/8/2021	0.0	0.0	
9/17/2021	0.0	3.9	
9/21/2021	0.0	14.3	
9/29/2021	0.0	34.7	

Notes: PID = Photoionization Detector ppm = parts per million

TABLE 4
GROUNDWATER TREATMENT SYSTEM
DISCHARGE SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case No. 1991-2100-BA

Month Year	Monthly Discharge Volume (gallons)	Cumulative Discharge Volume (gallons)
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
January 2019	43,930	1,965,900
February 2019	46,710	2,012,610
March 2019	45,230	2,057,840
April 2019	45,490	2,103,330
May 2019	83,670	2,187,000
June 2019	43,460	2,230,460
July 2019	69,230	2,299,690
August 2019	50,770	2,350,460
September 2019	65,450	2,415,910
October 2019	92,570	2,508,480
November 2019	57,370	2,565,850
December 2019	36,980	2,602,830
January 2020	50,330	2,653,160
February 2020	55,590	2,708,750
March 2020	59,510	2,768,260
April 2020	36,250	2,804,510

TABLE 4
GROUNDWATER TREATMENT SYSTEM
DISCHARGE SUMMARY

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

Month Year	Monthly Discharge Volume (gallons)	Cumulative Discharge Volume (gallons)
May 2020	87,810	2,892,320
June 2020	92,930	2,985,250
July 2020	95,870	3,081,120
August 2020	70,120	3,151,240
September 2020	56,800	3,208,040
October 2020	74,980	3,283,020
November 2020	77,770	3,360,790
December 2020	41,940	3,402,730
January 2021	59,180	3,461,910
February 2021	63,150	3,525,060
March 2021	78,320	3,603,380
April 2021	96,040	3,699,420
May 2021	71,500	3,770,920
June 2021	55,010	3,825,930
July 2021	63,690	3,889,620
August 2021	83,920	3,973,540
September 2021	58,050	4,031,590

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

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

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

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

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)
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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)
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	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
INF	10/3/2018	4.1	6.7	39.6	263	313	3.8	1.88	0.974	2.85	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 (< 0.15)	ND (< 0.98)
INF	10/10/2018	4.0	6.3	44.6	263	317.9	3.7	1.69	0.677	2.37	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 (< 0.15)	ND (< 0.98)
INF	11/7/2018	3.9	6.2	45.4	210	265.5	3.2	1.23	0.614	1.84	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

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)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	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 (< 0.15)	ND (< 0.98)
INF	4/3/2019	4.5	13.8	112	419	549	2.5	3.29	1.08	4.37	76.7
EFF	4/3/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.4	< 3.0	0.97 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	4/17/2019	4.9	13.9	118	532	669	3.0	3.13	0.972	4.10	67.4
EFF	4/17/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 0.98)
INF	5/1/2019	4.8	12.4	102	492	611	2.7	3.04	1.50	4.54	63.6
EFF	5/1/2019	ND (< 0.43)	0.80 (J)	ND (< 0.60)	ND (< 0.59)	< 2.42	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	5/8/2019	6.3	17.1	142	499	664	3.5	3.17	1.11	4.28	87.6
EFF	5/8/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	6/5/2019	4.4	11.2	91.9	455	563	3.3	2.60	1.06	3.66	69.3
EFF	6/5/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.63 (J)	< 2.19	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	6/12/2019	4.8	12.3	100	456	573	2.9	2.94	1.14	4.08	77.0
EFF	6/12/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	3.0	4.6	ND (< 0.51)	ND (< 0.042)	ND (< 0.050)	ND (< 0.092)	ND (< 0.98)
INF	7/10/2019	4.0	7.7	48.9	328	389	2.7	1.88	0.92	2.80	57.5
EFF	7/10/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	7/19/2019	3.2	6.1	49.0	270	328.3	2.3	1.81	0.77	2.58	50.3
EFF	7/19/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	8/5/2019	3.4	5.3	24.6	203	236.3	0.68 (J)	1.77	0.81	2.58	57.6
EFF	8/5/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.68 (J)	ND (< 0.042)	0.109	0.151	ND (< 0.98)
INF	8/13/2019	2.9	3.1	10.5	90.6	107.1	2.9	1.10	0.693	1.79	27.9
EFF	8/13/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.62 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	9/4/2019	2.6	1.9	7.3	32.2	44.0	3.2	0.720	0.356	1.08	17.0
EFF	9/4/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	9/11/2019	3.1	2.2	26.6	35.9	67.8	2.9	0.895	0.435	1.330	11.7
EFF	9/11/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.74 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	10/1/2019	4.1	4.3	10.6	71.9	90.9	2.6	1.25	0.625	1.875	29.4
EFF	10/1/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.84 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	10/9/2019	3.6	2.9	19.1	57.0	82.6	2.6	1.24	0.386	1.626	23.2
EFF	10/9/2019	0.48 (J)	ND (< 0.53)	ND (< 0.60)	1.0	<2.61	0.85 (J)	ND (< 0.042)	ND (< 0.053)	ND (< 0.095)	ND (< 0.98)
INF	11/14/2019	2.7	3.6	37.0	104	147	3.4	1.47	0.628	2.098	45.1
EFF	11/14/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.59 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/19/2019	2.9	4.2	43.2	117	167	3.4	1.33	0.646	1.976	47.5
EFF	11/19/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.79 (J)	<2.35	0.78 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/4/2019	1.4	2.2	26.4	56.4	86.4	2.0	0.695	0.158	0.853	16.9
EFF	12/4/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.67 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/11/2019	1.7	2.6	31.5	62.4	98.2	2.0	0.778	0.334	1.112	19.4
EFF	12/11/2019	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.62 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

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)
INF	1/2/2020	2.5	4.4	59.3	108	174	3.0	1.44	0.548	1.99	24.7
EFF	1/2/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.87 (J)	< 2.43	0.54 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	1/8/2020	1.9	3.2	39.8	74.0	118.9	2.4	0.896	0.307	1.203	14.1
EFF	1/8/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.96 (J)	< 2.52	0.78 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/12/2020	0.67	ND (< 0.53)	ND (< 0.60)	12.1	< 13.9	2.7	0.384	0.213	0.597	ND (< 2.5)
EFF	2/12/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.96 (J)	0.103 (J)	ND (< 0.053)	< 0.156	ND (< 2.5)
INF	2/18/2020	0.96	1.1	0.81 (J)	37.9	40.8 (J)	2.6	0.631	0.348	0.979	6.7
EFF	2/18/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	3/4/2020	1.2	0.96 (J)	ND (< 0.60)	50.2	< 53.0	2.8	0.716	ND (0.053)	< 0.769	7.6
EFF	3/4/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.79 (J)	ND (< 0.10)	0.201	< 0.30	ND (< 2.5)
INF	3/11/2020	1.0	1.1	ND (< 0.60)	32.0	< 34.7	2.6	0.496	0.502	0.998	2.9 (J)
EFF	3/11/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.94 (J)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	4/1/2020	1.8	2.4	0.61 (J)	56.5	61.3 (J)	3.7	0.680	0.378	1.058	7.4
EFF	4/1/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.66 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/8/2020	2.0	2.8	0.81 (J)	48.0	53.6 (J)	3.7	0.801	0.571	1.372	10.3
EFF	4/8/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	0.63 (J)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/6/2020	1.5	1.4	3.2	39.0	45.1	2.8	0.754	0.380	1.134	8.0
EFF	5/6/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/13/2020	2.0	3.9	4.6	76.4	86.9	2.7	0.978	ND (< 0.053)	< 1.031	17.3
EFF	5/13/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF**	6/3/2020	2.6	9.3	98.1	98.9	208.9	2.2	ND (< 0.10)	0.732	< 0.83	34.2
EFF	6/3/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	6/10/2020	2.4	4.4	9.5	37.0	53.3	3.0	0.924	0.694	1.618	15.9
EFF	6/10/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	7/9/2020	1.1	0.76 (J)	0.91 (J)	16.4	19.2 (J)	1.8	0.458	0.182	0.640	3.1 (J)
EFF	7/9/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	7/15/2020	1.9	2.1	5.5	21.7	31.2	2.1	0.747	0.453	1.200	7.8
EFF	7/15/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	8/5/2020	1.0	2.0	18.2	84.1	105.3	1.9	0.644	0.505	1.149	19.7
EFF	8/5/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.052)	ND (< 0.15)	ND (< 2.5)
INF	8/12/2020	1.2	1.8	16.6	68.8	88.4	2.3	0.688	0.588	1.276	32.2
EFF	8/12/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	9/9/2020	1.3	1.6	2.3	71.3	76.5	2.0	0.618	0.311	0.929	9.3
EFF	9/9/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	9/16/2020	1.4	2.6	18.0	116	138	2.1	1.07	0.536	1.61	28.9
EFF	9/16/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	10/7/2020	2.2	3.6	41.8	116	164	2.1	1.49	0.640	2.13	38.6
EFF	10/7/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	10/14/2020	2.0	4.1	50.0	146	202	2.1	1.35	0.793	2.14	43.1
EFF	10/14/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/4/2020	1.3	1.8	15.8	103	122	2.1	0.964	0.580	1.544	23.4
EFF	11/4/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	11/11/2020	1.8	3.4	22.4	170	198	2.0	1.25	0.529	1.78	35.1
EFF	11/11/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	12/2/2020	1.1	1.4	12.3	92.3	107.1	2.3	0.838	0.613	1.45	18.8
EFF	12/2/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

TABLE 5
GROUNDWATER TREATMENT SYSTEM SAMPLING RESULTS SUMMARY
Former Hess Station No. 20204
1613 East Joppa Road
Towson, MD
Case # 1991-2100-BA

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)
INF	12/10/2020	1.3	2.2	17.5	108	129	2.0	0.944	0.756	1.700	24.5
EFF	12/10/2020	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	1/21/2021	1.1	2.9	29.5	108	141.5	2.0	1.03	0.578	1.61	41.5
EFF	1/21/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	1/28/2021	1.2	3.0	32.8	114	151	2.1	0.983	0.562	1.545	35.8
EFF	1/28/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/3/2021	0.92	2.4	28.9	90.4	122.6	1.9	0.866	0.439	1.305	21.7
EFF	2/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	2/9/2021	1.9	4.1	55.4	144	205.4	2.5	1.30	0.398	1.70	33.0
EFF	2/9/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	3/3/2021	1.2	2.8	33.4	98	135.8	1.9	1.15	0.620	1.77	20.0
EFF	3/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.065)	0.308	ND (< 0.15)	ND (< 2.5)
INF	3/8/2021	1.6	3.8	34.5	143	182.9	2.1	1.37	0.550	1.92	28.5
EFF	3/8/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	3.0	< 4.56	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/1/2021	1.5	3.8	34.4	131	171	1.8	1.33	0.564	1.89	25.3
EFF	4/1/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.8	< 3.4	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	4/7/2021	1.5	4.4	15.4	184	205	1.9	1.46	0.629	2.09	26.4
EFF	4/7/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	9.7	< 11.3	ND (< 0.51)	0.122 (J)	ND (< 0.052)	< 0.174	ND (< 2.5)
INF	5/5/2021	1.8	6.2	36.8	127	172	2.3	1.33	0.746	2.08	29.6
EFF	5/5/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	5/12/2021	1.9	5.3	38.7	97.5	143.4	2.7	1.28	0.574	1.85	20.6
EFF	5/12/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.053)	ND (< 0.15)	ND (< 2.5)
INF	6/3/2021	1.5	3.2	29.4	114	148	2.0	1.06	0.709	1.77	23.0
EFF	6/3/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	6/10/2021	1.7	3.4	37.8	118	161	2.2	1.31	0.831	2.14	29.4
EFF	6/10/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.052)	ND (< 0.15)	ND (< 2.5)
INF	7/7/2021	1.5	3.2	28.4	128	161	2.0	0.560	0.549	1.109	34.1
EFF	7/7/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	2.2	3.8	ND (< 0.51)	ND (< 0.250)	ND (< 0.050)	ND (< 0.300)	ND (< 2.5)
INF	7/13/2021	1.1	2.1	16.2	93.4	112.8	1.8	0.720	0.575	1.295	20.4
EFF	7/13/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.250)	ND (< 0.053)	ND (< 0.303)	ND (< 2.5)
INF	8/11/2021	1.4	2.3	20.3	98.1	122.1	1.9	0.826	0.646	1.472	32.3
EFF	8/11/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	8/18/2021	0.99	1.4	15.3	53.0	70.7	1.4	0.550	0.304	0.854	19.2
EFF	8/18/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	0.86 (J)	< 2.42	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
INF	9/1/2021	1.5	2.2	12.7	91.5	107.9	2.0	0.982	0.560	1.542	21.4
EFF	9/1/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	1.60	3.16	ND (< 0.51)	0.101 (J)	ND (< 0.053)	< 0.154	ND (< 2.5)
INF	9/8/2021	1.5	2.0	18.7	69.5	91.7	2.1	0.741	0.566	1.307	24.5
EFF	9/8/2021	ND (< 0.43)	ND (< 0.53)	ND (< 0.60)	ND (< 0.59)	ND (< 2.15)	ND (< 0.51)	ND (< 0.10)	ND (< 0.050)	ND (< 0.15)	ND (< 2.5)
NPDES Permit Limits*		5	NL	NL	NL	100	NL	NL	NL	15	NL

*Effluent Limitations listed in NPDES Permit # MDG915958

** Due to an anomalous Ethylbenzene concentration, the system was resampled on 6/25/2020.

EFF = Effluent Sample (Post-filtration)

INF = 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

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD27916

Sampling Date: 07/07/21

Report to:

jfoxx@emsenv.com

ATTN: Distribution4

Total number of pages in report: 10



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Caitlin Brice".

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

Sample Summary

EMS Environmental, Inc.

Job No: JD27916

HESS #20204, 1613 East Joppa Road, Towson, MD

Project No: 5713 PO#5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD27916-1	07/07/21	14:20 BR	07/08/21	AQ	Influent	INF
JD27916-2	07/07/21	14:10 BR	07/08/21	AQ	Water	MID
JD27916-3	07/07/21	14:00 BR	07/08/21	AQ	Effluent	EFF

Report of Analysis

Client Sample ID: INF		Date Sampled: 07/07/21
Lab Sample ID: JD27916-1		Date Received: 07/08/21
Matrix: AQ - Influent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E170284.D	1	07/09/21 12:58	ED	n/a	n/a	V2E8512
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	0.50	0.43	ug/l	
108-88-3	Toluene	3.2	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	28.4	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	128	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.51	ug/l	
91-20-3	Naphthalene	34.1	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		85-118%
17060-07-0	1,2-Dichloroethane-D4	86%		80-121%
2037-26-5	Toluene-D8	95%		80-120%
460-00-4	4-Bromofluorobenzene	85%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF	
Lab Sample ID: JD27916-1	Date Sampled: 07/07/21
Matrix: AQ - Influent	Date Received: 07/08/21
Method: SW846 8015D SW846 3510C	Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y105865.D	1	07/13/21 13:43	TL	07/12/21 16:40	OP34260	G2Y4113
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.549	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	47%		22-140%		
438-22-2	5a-Androstane	49%		10-135%		

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID		
Lab Sample ID: JD27916-2		Date Sampled: 07/07/21
Matrix: AQ - Water		Date Received: 07/08/21
Method: SW846 8260D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E170283.D	1	07/09/21 12:27	ED	n/a	n/a	V2E8512
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.80	1.0	0.60	ug/l	J
1330-20-7	Xylene (total)	5.1	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		85-118%
17060-07-0	1,2-Dichloroethane-D4	87%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	86%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID		
Lab Sample ID: JD27916-2		Date Sampled: 07/07/21
Matrix: AQ - Water		Date Received: 07/08/21
Method: SW846 8015D SW846 3510C		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y105866.D	1	07/13/21 14:16	TL	07/12/21 16:40	OP34260	G2Y4113
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	44%		22-140%		
438-22-2	5a-Androstane	42%		10-135%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 07/07/21
Lab Sample ID: JD27916-3		Date Received: 07/08/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E170282.D	1	07/09/21 11:57	ED	n/a	n/a	V2E8512
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	2.2	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		85-118%
17060-07-0	1,2-Dichloroethane-D4	86%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	86%		80-120%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	
Lab Sample ID: JD27916-3	Date Sampled: 07/07/21
Matrix: AQ - Effluent	Date Received: 07/08/21
Method: SW846 8015D SW846 3510C	Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y105867.D	1	07/13/21 14:49	TL	07/12/21 16:40	OP34260	G2Y4113
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	51%		22-140%		
438-22-2	5a-Androstane	61%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Sample Receipt Summary

Job Number: JD27916

Client: _____

Project: _____

Date / Time Received: 7/8/2021 5:15:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/></p> | <p>3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Cooler Temperature

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <p>1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Cooler temp verification: <u>IR Gun</u></p> <p>3. Cooler media: <u>Ice (Bag)</u></p> <p>4. No. Coolers: <u>1</u></p> | <p style="text-align: center;">Y or N</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

Quality Control Preservation

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <p>1. Trip Blank present / cooler: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Trip Blank listed on COC: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>4. VOCs headspace free: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> | <p style="text-align: center;">Y or N N/A</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|

Sample Integrity - Documentation

- | | |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Sample labels present on bottles:</p> <p>2. Container labeling complete:</p> <p>3. Sample container label / COC agree:</p> | <p style="text-align: center;">Y or N</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Sample Integrity - Condition

- | | |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Sample recvd within HT:</p> <p>2. All containers accounted for:</p> <p>3. Condition of sample:</p> | <p style="text-align: center;">Y or N</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;"><u>Intact</u></p> |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Sample Integrity - Instructions

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Analysis requested is clear:</p> <p>2. Bottles received for unspecified tests</p> <p>3. Sufficient volume recvd for analysis:</p> <p>4. Compositing instructions clear:</p> <p>5. Filtering instructions clear:</p> | <p style="text-align: center;">Y or N N/A</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p> <p><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD27916X

Sampling Date: 07/07/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **43**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'Mike Earp'.

Mike Earp

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Subcontract Lab Data	4
Section 3: Misc. Forms	41
3.1: Chain of Custody	42



Sample Summary

EMS Environmental, Inc.

Job No: JD27916X

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713 PO#5713

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JD27916-1X	07/07/21	14:20 BR	07/08/21	AQ	Influent	INF
JD27916-2X	07/07/21	14:10 BR	07/08/21	AQ	Water	MID
JD27916-3X	07/07/21	14:00 BR	07/08/21	AQ	Effluent	EFF

Subcontract Lab Data

Report of Analysis

Project: JD27916X-HESS#20204

Client PO: Not Available

Report To: SGS Environmental Services
2235 Route 130
Dayton, NJ 08810
Attn: B.Wasserman/J.Schiller

Received Date: 7/20/2021

Report Date: 8/4/2021

Deliverables: MDE-R

Lab ID: AD24837

Lab Project No: 1072031

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.


Sean Berls - Quality Assurance Officer

OR

Jean Revolus - Laboratory Director

NJ (07071)
PA (68-00463)

NY (ELAP11408)
KY (90124)

CT (PH-0671)



Sample Summary.....	1
Case Narrative.....	2
Executive Summary.....	3
Report of Analysis.....	4
Reporting Definitions / Data Qualifiers.....	7
Laboratory Chronicle.....	8
Chain of Custody Forms.....	9
Chain of Custody	
Condition Upon Receipt Forms	
Preservation Documentation Forms (If Applicable)	
Internal Chain Of Custody Records	
GRO Data.....	13
Form 1 Sample and Blank Results	
Form 2 Surrogate Recovery	
Form 3 Spike Recovery	
Form 4 Method Blank Summary	
Form 5 Run Logs & BFB Spectra	
Form 6, 7 Calibration Summary	

Sample Summary

Client: SGS Environmental Services
Project: JD27916X-HESS#20204

HC Project #: 1072031

2

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD24837-001	INF	Aqueous	7/7/2021	7/20/2021
AD24837-002	MID	Aqueous	7/7/2021	7/20/2021
AD24837-003	EFF	Aqueous	7/7/2021	7/20/2021

HC Case Narrative

Client: SGS Environmental Services
Project: JD27916X - HESS # 20204


HC Project: 1072031

2

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Gasoline Range Organics Analysis:

Sample AD24837-001 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The re-analysis is reported. Please refer to the applicable Form 2 for the recoveries.



Sean Berts
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

8/4/21

Date

HC Executive Summary

1072031 0003

Client: SGS Environmental Services
Project: JD27916X-HESS#20204

HC Project #: 1072031

2

Lab#: AD24837-001

Sample ID: INF

Analyte	Units	RL	Result	Analytical Method
Gasoline Range Organics	ug/l	250	560	EPA 8015D

HC Report of Analysis

Client: SGS Environmental Services
Project: JD27916X-HESS#20204

HC Project #: 1072031

2

Sample ID: INF

Lab#: AD24837-001

Matrix: Aqueous

Collection Date: 7/7/2021

Receipt Date: 7/20/2021

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	560

Sample ID: MID
Lab#: AD24837-002
Matrix: Aqueous

Collection Date: 7/7/2021
Receipt Date: 7/20/2021

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

Sample ID: EFF
Lab#: AD24837-003
Matrix: Aqueous

Collection Date: 7/7/2021
Receipt Date: 7/20/2021

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor	MR = Matrix Replicate	PS = Post Digestion Spike
DUP = Duplicate	MS = Matrix Spike	RL* = Reporting Limit
LCS = Laboratory Control Spike	MSD = Matrix Spike Duplicate	RT = Retention Time
MBS = Method Blank Spike	NA = Not Applicable	SD = Serial Dilution
MDL = Method Detection Limit	ND = Not Detected	

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

- A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.
- B-** Indicates analyte was present in the Method Blank and sample.
- d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.
- E-** Indicates the concentration exceeded the upper calibration range of the instrument.
- J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.
- R-** Retention Time is out.
- Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

1072031 0008

Client: SGS Environmental Services
Project: JD27916X-HESS#20204

HC Project #: 1072031

2

Lab#: AD24837-001 Sample ID: INF

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	7/21/21 18:06	RL

Lab#: AD24837-002 Sample ID: MID

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	7/21/21 15:26	RL

Lab#: AD24837-003 Sample ID: EFF

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	7/21/21 15:44	RL

Chain of Custody



CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480

1072031

Page 1 of 1

Requested Analysis (see TEST CODE SHEET)

Matrix Codes

- DW - Drinking Water
- GW - Ground Water
- WW - Wastewater
- SW - Surface Water
- SO - Soil
- SL - Sludge
- SEDP - Sediment
- OI - Oil
- LIQ - Other Liquid
- AIR - Air
- SOL - Other Solid
- WP - Wipe
- FB-Field Blank
- EP-Equipment Blank
- RP - Rinse Blank
- TB-Trip Blank

Client / Reporting Information		Project Name:		Requested Analysis (see TEST CODE SHEET)		Matrix Codes	
Company Name: SGS North America Inc.		Project Name: HESS #20204, 1613 East Joppa Road, Towson, MD		FED-EX Tracking #		BDT# Order Control #	
Street Address: 2235 Route 130		Street:		SGS Order #		JD27916X	
City: Dayton NJ 08810		City State: Dayton NJ		Billing Information (# different from Report to)			
Project Contact: Behr.Waseman@sgs.com		Project #:		Company Name			
Phone #: 732-329-0200		Client Purchase Order #:		Street Address			
Fax #: 732-329-0200		Project Manager:		City State Zip			
Sampler(s) Name(s): BR		Attention:					
Field ID / Point of Collection: AD24837		METH/ID Vial #		V8015GRO		LAB USE ONLY	
1X INF 001	7/7/21	2:20:00 PM	BR	BR	2	2	X
2X MID 002	7/7/21	2:10:00 PM	BR	BR	2	2	X
3X EFF 003	7/7/21	2:00:00 PM	BR	BR	2	2	X
				Number of preserved bottles			
				HI			
				NaOH			
				HNO3			
				H2SO4			
				NONE			
				DI Water			
				MEOH			
				ENCORE			
Turnaround Time (Business days)		Approved By (SGS PAH) / Date:		Data Deliverable Information			
				<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> Other Due 7/19/2021			
Emergency & Fast Turnaround data available VIA Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.		Commercial 'A' = Results + QC Summary + Partial Raw data Commercial 'B' = Results + QC Summary + Partial Raw data Commercial 'C' = Results + QC Summary			
1 Retransmitted by: Handwritten		Date Time: 7-20-21		Received By: J. Joseph A.		Date Time: 7/20/21	
3 Retransmitted by:		Date Time:		Received By:		Date Time:	
5 Retransmitted by:		Date Time:		Received By:		Date Time:	
				Please email sample receipt confirmation & report to both waseman@sgs.com, jadon.schiller@sgs.com. Please email invoice to both waseman@sgs.com, angela.wuz@sgs.com			
				Comments, Special Instructions			
				Custody Seal # 4			
				<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp 2.9			



CONDITION UPON RECEIPT

Batch Number AD24837

Entered By: Ricardo

Date Entered 7/20/2021 4:18:00 PM

-
- 1 Yes Is there a corresponding COC included with the samples?
- 2 Yes Are the samples in a container such as a cooler or Ice chest?
- 3 No Are the COC seals intact?
- 4 T0054 <--- Thermometer ID. Please specify the Temperature inside the container (in degC).
2.4
- 5 Yes Are the samples refrigerated (where required)/have they arrived on ice?
- 6 Yes Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
- 7 Yes Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
- 8 Yes Are all of the sample labels or numbers legible? If no specify:
- 9 Yes Do the contents match the COC? If no, specify
- 10 No Is there enough sample sent for the analyses listed on the COC? If no, specify:
TWO 40ML VIALS RECEIVED FOR ALL THREE SAMPLES
- 11 Yes Are samples preserved correctly?
- 12 Yes Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
- 13 NA Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
- 14 NA Corrective actions (Specify item number and corrective action taken).
- 15 NA Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/ M	Analysis
AD24837-001	07/20/21 14:28	RICAR	0	M	Received
AD24837-001	07/20/21 16:18	RICAR	0	M	Login
AD24837-001	07/20/21 17:10	R31	1	A	NONE
AD24837-001	07/20/21 17:10	R31	2	A	NONE
AD24837-001	07/22/21 12:22	RL	2	A	GRO
AD24837-002	07/20/21 14:28	RICAR	0	M	Received
AD24837-002	07/20/21 16:18	RICAR	0	M	Login
AD24837-002	07/20/21 17:10	R31	1	A	NONE
AD24837-002	07/20/21 17:10	R31	2	A	NONE
AD24837-002	07/22/21 12:22	RL	2	A	GRO
AD24837-003	07/20/21 14:28	RICAR	0	M	Received
AD24837-003	07/20/21 16:18	RICAR	0	M	Login
AD24837-003	07/20/21 17:10	R31	1	A	NONE
AD24837-003	07/20/21 17:10	R31	2	A	NONE
AD24837-003	07/22/21 12:22	RL	2	A	GRO

2

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GRO Data

Form1
ORGANICS REPORT

2

Sample Number: AD24837-001
 Client Id: INF
 Data File: 13M21916.D
 Analysis Date: 07/21/21 18:06
 Date Rec/Extracted: 07/20/21-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1
 Solids: 0

Cas #		Compound	RL	Conc	Units: ug/L	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics		250	560					

Worksheet #: 601251

Total Target Concentration 560

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
 Data File : 13M21916.D
 Signal(s) : FID1A.CH
 Acq On : 21 Jul 2021 18:06
 Operator : RL
 Sample : AD24837-001
 Misc : A,5ML!1
 ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Jul 22 14:50:17 2021
 Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
 Quant Title : @GC_13,ug,8015
 QLast Update : Fri Jun 04 18:40:09 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.497	44499	59.657	
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	d
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	d
4)g Gasoline Range Organics	8.523	401755	564.906	ug/L m

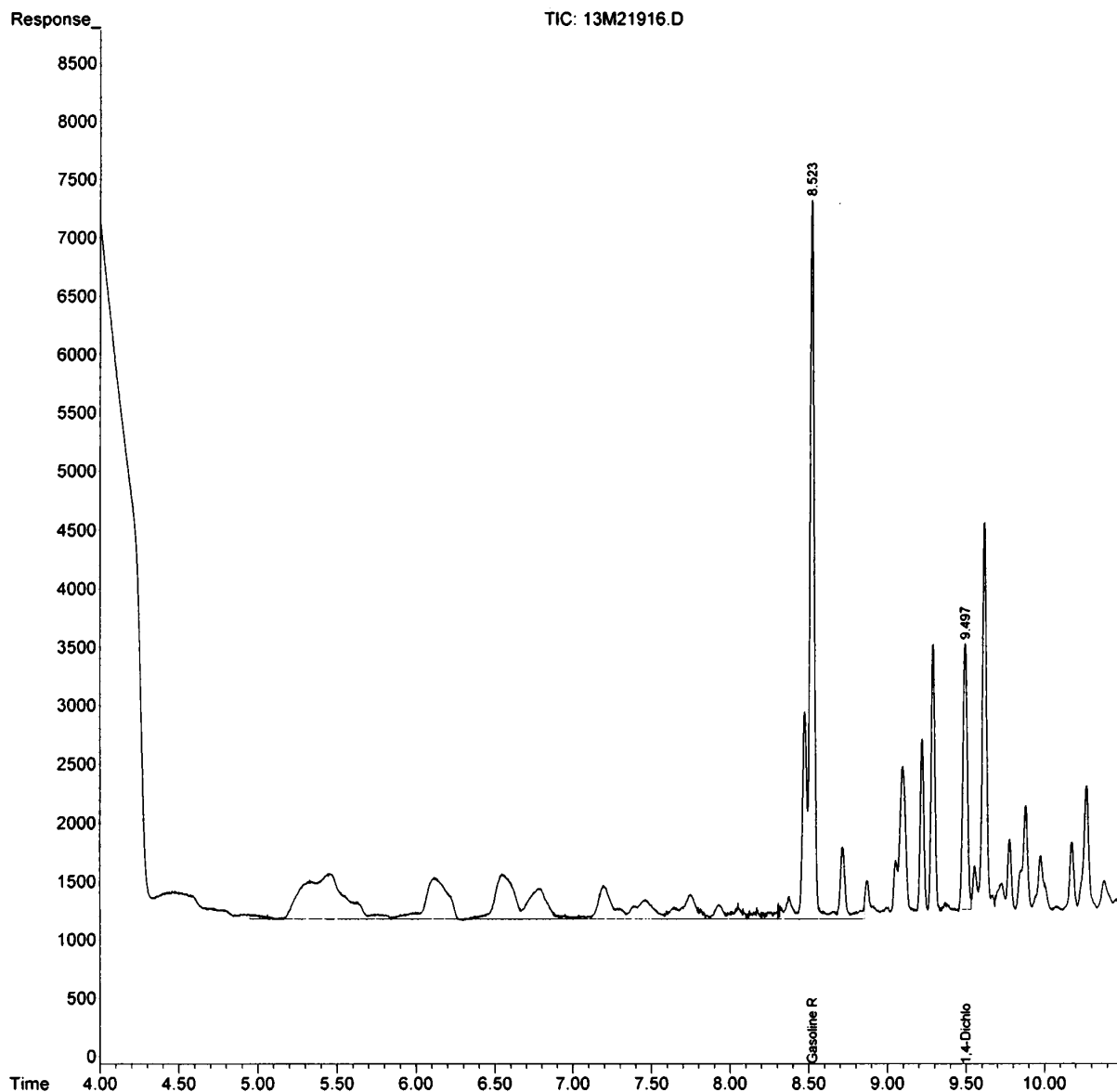
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(m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21916.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 18:06
Operator : RL
Sample : AD24837-001
Misc : A,5ML!1
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 22 14:50:17 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1
ORGANICS REPORT

Sample Number: AD24837-002
 Client Id: MID
 Data File: 13M21909.D
 Analysis Date: 07/21/21 15:26
 Date Rec/Extracted: 07/20/21-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1
 Solids: 0

2

		Units: ug/L					
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 601251

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21909.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 15:26
Operator : RL
Sample : AD24837-002
Misc : A,5ML!1
ALS Vial : 11 Sample Multiplier: 1

2

Integration File: autoint1.e
Quant Time: Jul 22 10:06:50 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.548f	19285	25.854	m
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	d
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

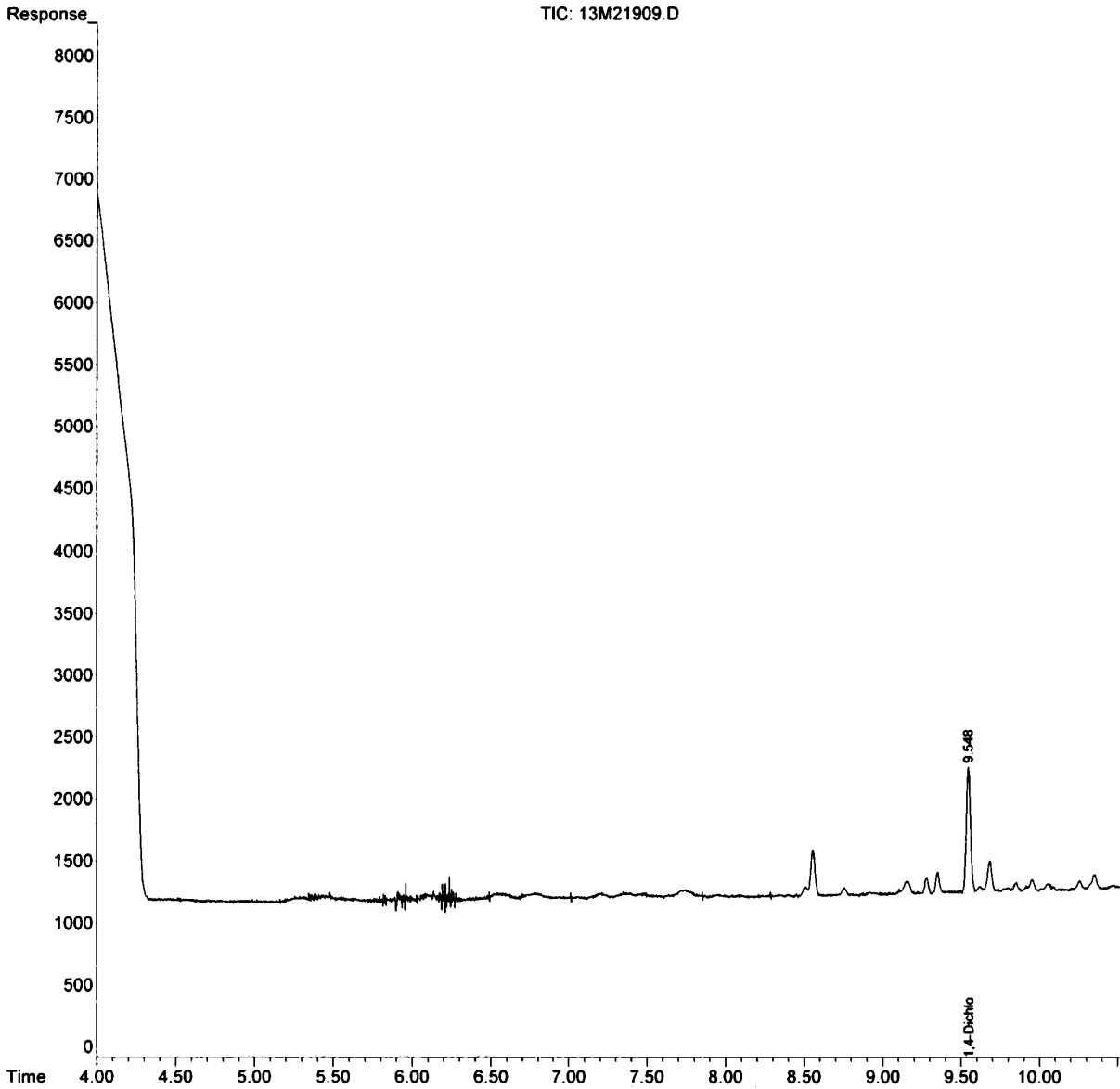
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(m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21909.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 15:26
Operator : RL
Sample : AD24837-002
Misc : A,5ML!1
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 22 10:06:50 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



2

Form1
ORGANICS REPORT

Sample Number: AD24837-003
 Client Id: EFF
 Data File: 13M21910.D
 Analysis Date: 07/21/21 15:44
 Date Rec/Extracted: 07/20/21-NA
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1
 Solids: 0

2

		Units: ug/L					
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 601251

Total Target Concentration 0

ColumnID: (*) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Dijf>40% between columns due to coelution. Lower concentration use a

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21910.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 15:44
Operator : RL
Sample : AD24837-003
Misc : A,5ML!1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 22 10:07:01 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.528f	20267	27.171	m
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window

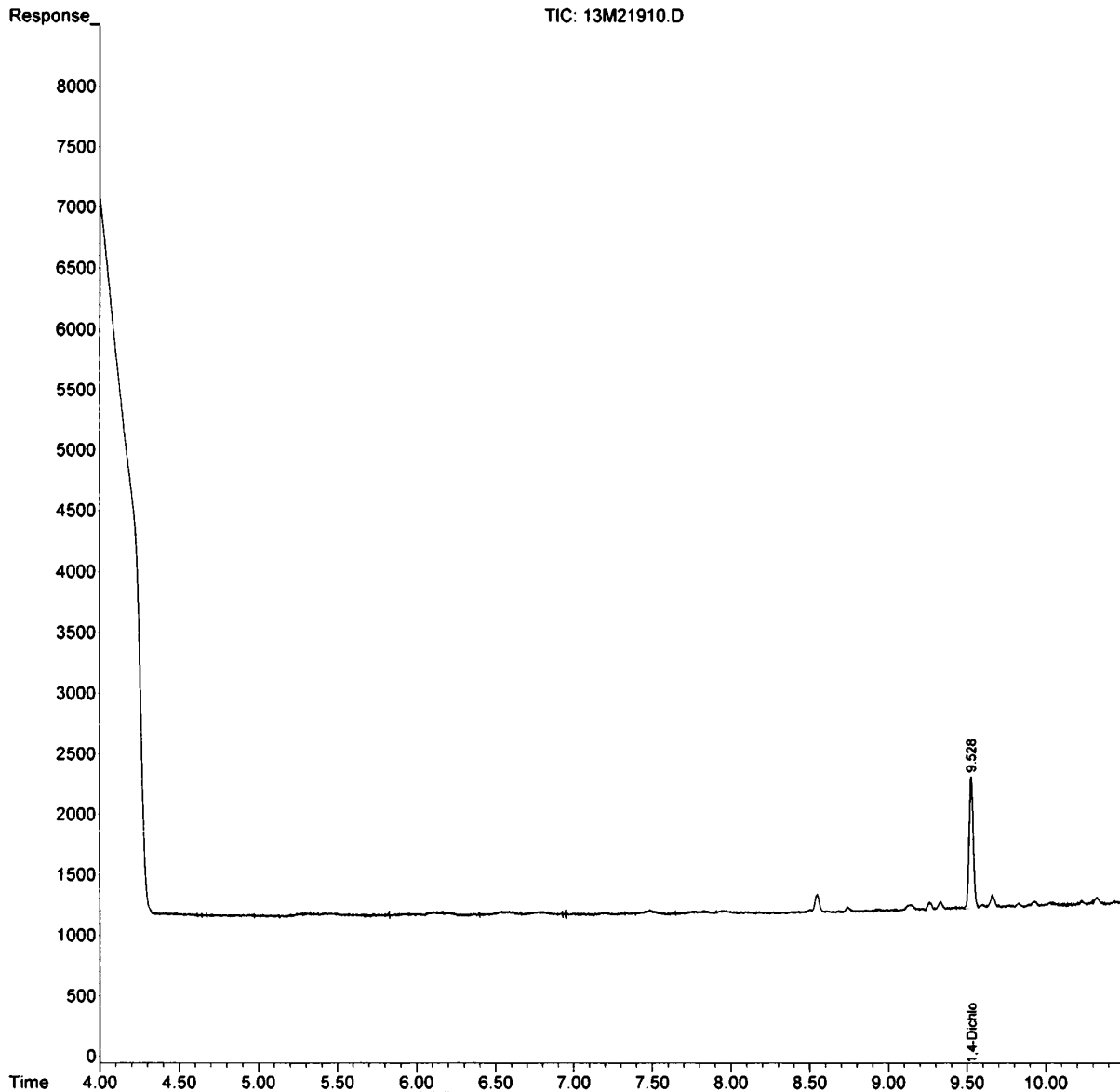
(m)=manual int.

2

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21910.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 15:44
Operator : RL
Sample : AD24837-003
Misc : A,5ML!1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 22 10:07:01 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1
ORGANICS REPORT

Sample Number: DAILY BLANK
 Client Id:
 Data File: 13M21904.D
 Analysis Date: 07/21/21 13:09
 Date Rec/Extracted:
 Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
 Matrix: Aqueous
 Initial Vol: 5ml
 Final Vol: NA
 Dilution: 1
 Solids: 0

2

		Units: ug/L					
Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 601251

Total Target Concentration 0

ColumnID: (*) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration use a

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
 Data File : 13M21904.D
 Signal(s) : FID1A.CH
 Acq On : 21 Jul 2021 13:09
 Operator : RL
 Sample : DAILY BLANK
 Misc : A,5ML
 ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Jul 22 10:07:11 2021
 Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
 Quant Title : @GC_13,ug,8015
 QLast Update : Fri Jun 04 18:40:09 2021
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.500	18831	25.245	m
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L d

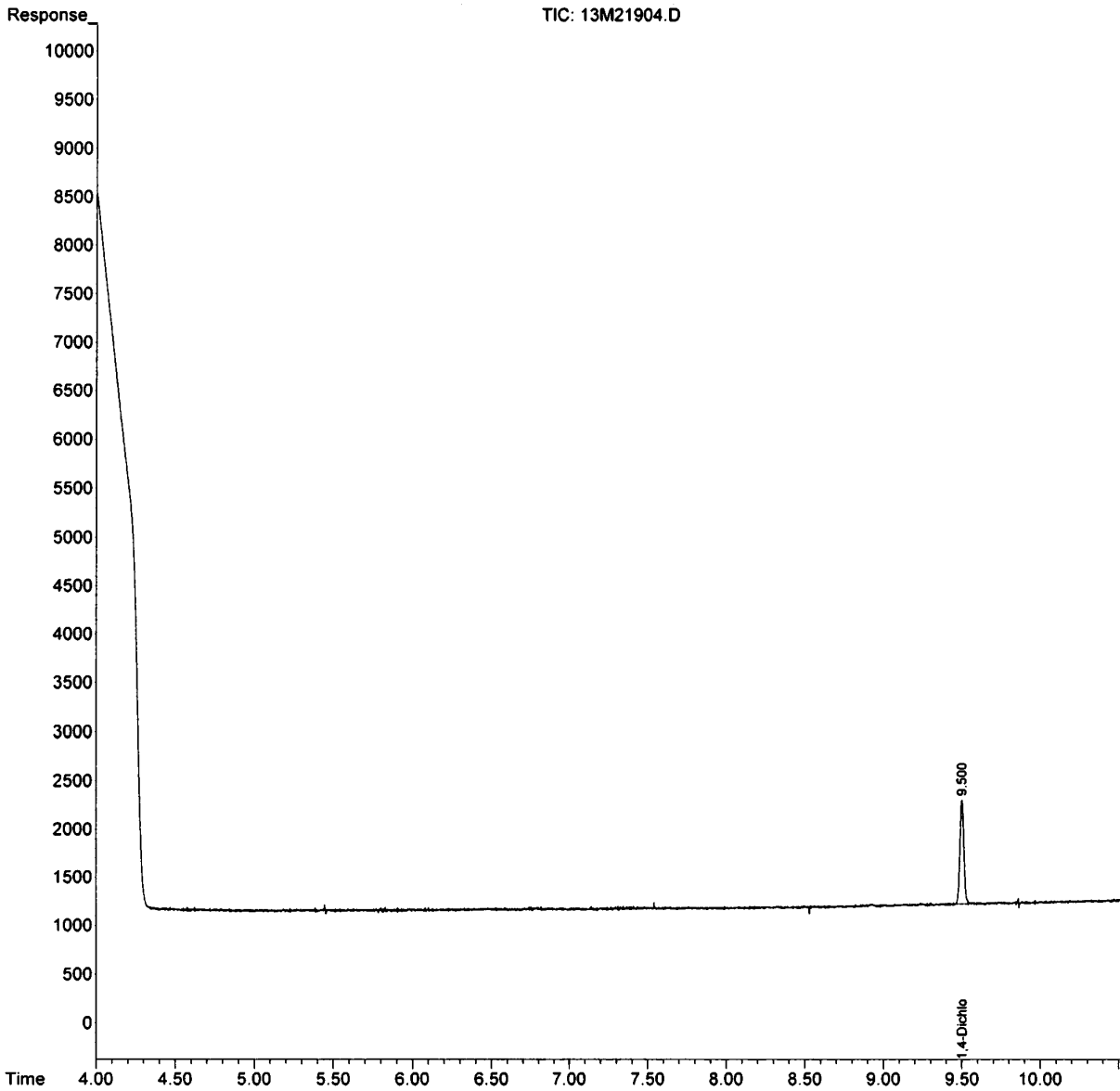
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(m)=manual int.

Data Path : G:\GcMsData\2021\GC_13\Data\07-21-21\
Data File : 13M21904.D
Signal(s) : FID1A.CH
Acq On : 21 Jul 2021 13:09
Operator : RL
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jul 22 10:07:11 2021
Quant Method : G:\GcMsData\2020\GC_13\MethodQt\13M_G0604.M
Quant Title : @GC_13,ug,8015
QLast Update : Fri Jun 04 18:40:09 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



2

FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M21904.D	DAILY BLANK	A	07/21/21 13:09	1		84					
13M21908.D	AD24837-001	A	07/21/21 14:35	1		200*					
13M21916.D	AD24837-001	A	07/21/21 18:06	1		199*					
13M21909.D	AD24837-002	A	07/21/21 15:26	1		86					
13M21910.D	AD24837-003	A	07/21/21 15:44	1		91					
13M21905.D	AD24831-001	A	07/21/21 13:38	1		83					
13M21914.D	MBS94195	A	07/21/21 17:16	1		106					
13M21917.D	AD24831-001(MS)	A	07/21/21 18:24	1		122					

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Aqueous Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data
 QC Batch: MBS94195

2

Data File	Sample ID:	Analysis Date
Spike or Dup: 13M21914.D	MBS94195	7/21/2021 5:16:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		
Method: 8015	Matrix: Aqueous	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1636.76	0	2000	82	40	130

* - Indicates outside of limits

- Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
 QC Batch: MBS94195

2

Data File	Sample ID:	Analysis Date
Spike or Dup: 13M21917.D	AD24831-001(MS)	7/21/2021 6:24:00 PM
Non Spike(If applicable): 13M21905.D	AD24831-001	7/21/2021 1:38:00 PM
Inst Blank(If applicable):		
Method: 8015	Matrix: Aqueous	QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1657.27	0	2000	83	40	130

* - Indicates outside of limits

- Indicates outside of standard limits but within method exceedance limits

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M21904.D
Matrix: Aqueous

Blank Analysis Date: 07/21/21 13:09
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD24837-001	13M21916.D	07/21/21 18:06
AD24837-001	13M21908.D	07/21/21 14:35
AD24837-002	13M21909.D	07/21/21 15:26
AD24837-003	13M21910.D	07/21/21 15:44
AD24831-001(MS)	13M21917.D	07/21/21 18:24
MBS94195	13M21914.D	07/21/21 17:16
AD24831-001	13M21905.D	07/21/21 13:38

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M21296.D	BLK	06/04/21 15:15	Aqueous	13M2132	9.4605	0.2476		
13M21297.D	CAL @ 250 PPB	06/04/21 15:32	Aqueous	13M2130	9.4448	0.0339		
13M21298.D	CAL @ 500 PPB	06/04/21 15:48	Aqueous	13M2130	9.4520	0.1101		
13M21299.D	CAL @ 750 PPB	06/04/21 16:05	Aqueous	13M2130	9.4457	0.0434		
13M21300.D	CAL @ 1000 PPB	06/04/21 16:21	Aqueous	13M2130	9.4379	0.0392		
13M21301.D	CAL @ 1500 PPB	06/04/21 16:38	Aqueous	13M2130	9.4348	0.072		
13M21302.D	CAL @ 2000 PPB	06/04/21 16:54	Aqueous	13M2130	9.4340	0.0805		
13M21303.D	CAL @ 4000 PPB	06/04/21 17:11	Aqueous	13M2130	9.4416	0		
13M21307.D	ICV	06/04/21 18:17	Aqueous	13M2130	9.4444	0.0297		
13M21311.D	BLK	06/04/21 19:23	Aqueous	13M2130	9.4412	0.0042		
13M21312.D	DAILY BLANK	06/04/21 19:40	Methanol	13M2130	9.4419	0.0032		
13M21313.D	AD23695-001	06/04/21 19:57	Methanol	13M2130	9.4416	0		
13M21314.D	AD23711-001	06/04/21 20:13	Methanol	13M2130	9.4406	0.0106		
13M21315.D	AD23711-001(MS)	06/04/21 20:30	Methanol	13M2130	9.4416	0		
13M21316.D	AD23711-001(MSD)	06/04/21 20:48	Methanol	13M2130	9.4433	0.018		
13M21317.D	MBS93586	06/04/21 21:05	Methanol	13M2130	9.4389	0.0286		
13M21318.D	STD	06/04/21 21:21	Methanol	13M2130	0.0000	200		
13M21319.D	2000 PPB	06/04/21 21:38	Aqueous	13M2130	9.4424	0.0085		
13M21323.D	MBS93595	06/04/21 22:45	Methanol	13M2130	9.4422	0.0064		
13M21324.D	MBS93596	06/04/21 23:01	Methanol	13M2130	9.4372	0.0466		
13M21325.D	MBS93597	06/04/21 23:18	Methanol	13M2130	9.4393	0.0244		
13M21326.D	MBS93598	06/04/21 23:34	Methanol	13M2130	9.4351	0.0689		
13M21328.D	CAL @ 2000 PPB	06/05/21 00:08	Aqueous	13M2130	9.4371	0.0477		
13M21330.D	MBS93600	06/05/21 00:41	Methanol	13M2132	9.4557	0.1969		
13M21335.D	BLK	06/05/21 02:05	Aqueous	13M2132	9.4476	0.1112		

Drift Compound: 1,4-Dichloroben

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M21900.D	CAL @ 2000 PPB	07/21/21 12:00	Aqueous	13M2190	9.5003	0		
13M21901.D	BLK	07/21/21 12:17	Methanol	13M2190	9.4858	0.1527		
13M21903.D	DAILY BLANK	07/21/21 12:50	Methanol	13M2190	9.4983	0.0211		
13M21904.D	DAILY BLANK	07/21/21 13:09	Aqueous	13M2190	9.5000	0.0032		
13M21905.D	AD24831-001	07/21/21 13:38	Aqueous	13M2190	9.5303	0.3153		
13M21906.D	AD24831-002	07/21/21 13:54	Aqueous	13M2190	9.5250	0.2596		
13M21907.D	AD24831-003	07/21/21 14:11	Aqueous	13M2190	9.5050	0.0495		
13M21908.D	AD24837-001	07/21/21 14:35	Aqueous	13M2190	9.5403	0.4202		
13M21909.D	AD24837-002	07/21/21 15:26	Aqueous	13M2190	9.5482	0.5029		
13M21910.D	AD24837-003	07/21/21 15:44	Aqueous	13M2190	9.5284	0.2953		
13M21911.D	AD24831-004	07/21/21 16:08	Methanol	13M2190	9.5341	0.3551		
13M21912.D	AD24831-005	07/21/21 16:25	Methanol	13M2190	9.5131	0.1346		
13M21913.D	MBS94194	07/21/21 16:59	Methanol	13M2190	9.5009	0.0063		
13M21914.D	MBS94195	07/21/21 17:16	Aqueous	13M2190	9.4886	0.1232		
13M21915.D	BLK	07/21/21 17:49	Aqueous	13M2190	9.4948	0.0579		
13M21916.D	AD24837-001	07/21/21 18:06	Aqueous	13M2190	9.4970	0.0347		
13M21917.D	AD24831-001(MS)	07/21/21 18:24	Aqueous	13M2190	9.4855	0.1559		
13M21918.D	AD24831-004(MS)	07/21/21 18:42	Methanol	13M2190	9.4845	0.1665		
13M21919.D	AD24831-004(MSD)	07/21/21 19:06	Methanol	13M2190	9.4916	0.0916		
13M21920.D	BLK	07/21/21 19:23	Methanol	13M2190	9.4696	0.3237		
13M21921.D	BLK	07/21/21 19:40	Methanol	13M2190	9.4679	0.3416		
13M21922.D	AD24831-006	07/21/21 19:57	Methanol	13M2190	9.4814	0.1991		
13M21923.D	AD24831-007	07/21/21 20:16	Methanol	13M2190	9.4900	0.1085		
13M21924.D	AD24831-008	07/21/21 20:43	Methanol	13M2190	9.4929	0.0779		
13M21925.D	AD24831-009	07/21/21 20:59	Methanol	13M2190	9.4721	0.2973		
13M21926.D	AD24831-010	07/21/21 21:16	Methanol	13M2190	9.4604	0.4209		
13M21927.D	AD24831-011	07/21/21 21:44	Methanol	13M2190	9.4704	0.3152		
13M21928.D	AD24831-012	07/21/21 22:01	Methanol	13M2190	9.4657	0.3649		
13M21929.D	AD24831-013	07/21/21 22:17	Methanol	13M2190	9.4576	0.4505		
13M21930.D	AD24831-014	07/21/21 22:51	Methanol	13M2190	9.4653	0.3691		
13M21931.D	AD24835-001	07/21/21 23:10	Methanol	13M2190	9.4539	0.4896		
13M21932.D	AD24814-010	07/21/21 23:26	Methanol	13M2190	9.4494	0.5372		
13M21933.D	CAL @ 2000 PPB	07/21/21 23:45	Aqueous	13M2190	9.4597	0.4283		
13M21934.D	2000 PPB	07/22/21 00:01	Aqueous	13M2193	9.4525	0.0761		

Drift Compound: 1,4-Dichloroben

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Method: EPA 8015D

Form 6 Initial Calibration

Instrument: GC_13

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time	Calibration Level Concentrations							
								Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1	13M21303	CAL @ 4000 PPB	06/04/21 17:11	2	13M21302	CAL @ 2000 PPB	06/04/21 16:54	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
3	13M21301	CAL @ 1500 PPB	06/04/21 16:38	4	13M21300	CAL @ 1000 PPB	06/04/21 16:21	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
5	13M21299	CAL @ 750 PPB	06/04/21 16:05	6	13M21298	CAL @ 500 PPB	06/04/21 15:48	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
7	13M21297	CAL @ 250 PPB	06/04/21 15:32					4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Compound	Col	Mr	Ft	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRt	RT	Corr1	Corr2	%Rsd	Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1,4-Dichlorobenzene-d4	1	0	Avg	---	0.0857	0.0820	0.0761	0.0722	0.0667	0.0645	---	0.0746	9.47	-1	-1	11								
2-Methylpentane	1	0	Avg	0.0014	0.0015	0.0012	0.0016	0.0017	0.0016	---	---	0.00157	5.46	0.991	0.991	11	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1,2,4-Trimethylbenzene	1	0	Avg	0.0015	0.0013	0.0013	0.0014	0.0013	0.0012	0.0013	---	0.00136	9.27	0.995	0.999	8.3	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0763	0.0698	0.0665	0.0730	0.0747	0.0676	0.0697	---	0.0711	8.07	0.996	0.999	5.2	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 17.7 Avg Rsd Col 2: -1

Flags
c - failed the initial calibration criteria(if applicable)

Note:
 Col = Column Number
 Mr = Molar Mass
 Ft = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. nch/chlordane etc.)
 RF = Indicates whether Avg R.F. 1 linear, or Quadratic Curve was used for compound.
 Corr 1 = Correlation Coefficient for linear Fa.
 Corr 2 = Correlation Coefficient for quad Fa.
 ^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

All Response Factors = Response Factors / 10000
 Initial Calibration Criteria: either %RSD <= 20 or Corr >= 995
 Columns: Signal #1 dh-1701 ; Signal #2 dh-608

Form 7
Continuing Calibration

Method: EPA 8015D

Data File:
Method:
Calibration Name:
Calibration Date/Time

Compound	Limit	Col	Mr	13M21900.D			13M21933.D											
				Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1613	2000	19.4	2300	2000	15.0									

2

Flags/Notes: * - Values outside of limits for this column/run

Last Page of Report

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: JD27916

Client: _____

Project: _____

Date / Time Received: 7/8/2021 5:15:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security

- | | | | | | | | |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Cooler Temperature

- | | | | |
|------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

Quality Control Preservation

- | | | | | |
|---------------------------------|-------------------------------------|-----------|-------------------------------------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

- | | | | |
|----------------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | | |
|----------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | | | | |
|-------------------------------------------|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

JD27916X: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713

SGS Job Number: JD28395

Sampling Date: 07/13/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **14**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'Mike Earp'.

Mike Earp

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JD28395-1: INF	6
3.2: JD28395-2: MID	8
3.3: JD28395-3: EFF	10
Section 4: Misc. Forms	12
4.1: Chain of Custody	13



Sample Summary

EMS Environmental, Inc.

Job No: JD28395

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD28395-1	07/13/21	13:20	BR	07/15/21	AQ	Influent	INF
JD28395-2	07/13/21	13:10	BR	07/15/21	AQ	Water	MID
JD28395-3	07/13/21	13:00	BR	07/15/21	AQ	Effluent	EFF

Summary of Hits

Job Number: JD28395
Account: EMS Environmental, Inc.
Project: HESS #20204, 1613 East Joppa Road, Towson, MD
Collected: 07/13/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

JD28395-1 INF

Benzene	1.1	0.50	0.43	ug/l	SW846 8260D
Toluene	2.1	1.0	0.53	ug/l	SW846 8260D
Ethylbenzene	16.2	1.0	0.60	ug/l	SW846 8260D
Xylene (total)	93.4	1.0	0.59	ug/l	SW846 8260D
Methyl Tert Butyl Ether	1.8	1.0	0.51	ug/l	SW846 8260D
Naphthalene	20.4	5.0	2.5	ug/l	SW846 8260D
TPH-DRO (C10-C28)	0.575	0.083	0.053	mg/l	SW846 8015D

JD28395-2 MID

Xylene (total)	2.4	1.0	0.59	ug/l	SW846 8260D
----------------	-----	-----	------	------	-------------

JD28395-3 EFF

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: INF		
Lab Sample ID: JD28395-1		Date Sampled: 07/13/21
Matrix: AQ - Influent		Date Received: 07/15/21
Method: SW846 8260D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C184308.D	1	07/24/21 21:05	EH	n/a	n/a	V2C8213
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.1	0.50	0.43	ug/l	
108-88-3	Toluene	2.1	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	16.2	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	93.4	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.8	1.0	0.51	ug/l	
91-20-3	Naphthalene	20.4	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	93%		80-121%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF		
Lab Sample ID: JD28395-1		Date Sampled: 07/13/21
Matrix: AQ - Influent		Date Received: 07/15/21
Method: SW846 8015D SW846 3510C		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ99923.D	1	07/20/21 13:47	RK	07/19/21 17:25	OP34356	GZZ3679
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.575	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	70%		22-140%		
438-22-2	5a-Androstane	53%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID	Date Sampled: 07/13/21
Lab Sample ID: JD28395-2	Date Received: 07/15/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C184302.D	1	07/24/21 18:12	EH	n/a	n/a	V2C8213
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	2.4	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		85-118%
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	102%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 07/13/21
Lab Sample ID: JD28395-2	Date Received: 07/15/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ99924.D	1	07/20/21 14:21	RK	07/19/21 17:25	OP34356	GZZ3679
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	76%		22-140%		
438-22-2	5a-Androstane	63%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 07/13/21
Lab Sample ID: JD28395-3		Date Received: 07/15/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C184299.D	1	07/24/21 16:45	EH	n/a	n/a	V2C8213
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		85-118%
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	101%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 07/13/21
Lab Sample ID: JD28395-3	Date Received: 07/15/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ99929.D	1	07/20/21 17:10	RK	07/19/21 17:25	OP34356	GZZ3679
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	75%		22-140%		
438-22-2	5a-Androstane	59%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: JD28395

Client: EMS ENVIRONMENTAL, INC.

Project: HESS #20204, 1613 EAST JOPPA ROAD, TOWS

Date / Time Received: 7/15/2021 5:40:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

JD28395: Chain of Custody

Page 2 of 2

4.1
4

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713

SGS Job Number: JD28395X

Sampling Date: 07/13/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **12**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'Mike Earp'.

Mike Earp

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Subcontract Lab Data	4
Section 3: Misc. Forms	10
3.1: Chain of Custody	11



Sample Summary

EMS Environmental, Inc.

Job No: JD28395X

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JD28395-1X	07/13/21	13:20 BR	07/15/21	AQ	Influent	INF
JD28395-2X	07/13/21	13:10 BR	07/15/21	AQ	Water	MID
JD28395-3X	07/13/21	13:00 BR	07/15/21	AQ	Effluent	EFF

Subcontract Lab Data

Report of Analysis

Hampton-Clarke Report Of Analysis

Client: SGS Environmental Services

HC Project #: 1072035

Project: JD28395X-HESS#20204

2

Sample ID: INF

Collection Date: 7/13/2021

Lab#: AD24841-001

Receipt Date: 7/20/2021

Matrix: Aqueous

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result		
Gasoline Range Organics	1	ug/l	250	720		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	58.73	30	50	150	196	S8

Sample ID: MID
Lab#: AD24841-002
Matrix: Aqueous

Collection Date: 7/13/2021
Receipt Date: 7/20/2021

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result		
Gasoline Range Organics	1	ug/l	250	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	26.22	30	50	150	87	

2

Sample ID: EFF
Lab#: AD24841-003
Matrix: Aqueous

Collection Date: 7/13/2021
Receipt Date: 7/20/2021

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result		
Gasoline Range Organics	1	ug/l	250	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	25.48	30	50	150	85	

2



CHAIN OF CUSTODY

1072035

Page 1 of 1

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480

Client / Reporting Information

Project Information

Requested Analysis (see TEST CODE sheet)

Matrix Codes

Company Name: **SGS North America Inc.**

Project Name: **HESS #20204, 1613 East Joppa Road, Towson, MD**

FED-EX Tracking #

1072035

SGS Job #

JD28395X

Matrix Codes

Street Address: **2235 Route 130**

City: **Dayton** State: **NJ** Zip: **08810**

Billing Information (If different from Report to)
Company Name

SGS Quote #

Requested Analysis (see TEST CODE sheet)

SGS Job #

JD28395X

Matrix Codes

Project Contact: **Beih Wasserman@sgs.com**

Project #

Street Address

SGS Quote #

Requested Analysis (see TEST CODE sheet)

SGS Job #

JD28395X

Matrix Codes

Phone # **732-329-0200**

Client Purchase Order #

City

SGS Quote #

Requested Analysis (see TEST CODE sheet)

SGS Job #

JD28395X

Matrix Codes

Sampler(s) Name(s) **BR**

Project Manager

Attention:

SGS Quote #

Requested Analysis (see TEST CODE sheet)

SGS Job #

JD28395X

Matrix Codes

SSS Sample #	Field ID / Point of Collection	METH/DI Val #	Date	Time	Sampled by	Matrix	# of bottles	CI	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE
1X	INF	001	7/13/21	1:20:00 PM	BR	AQ	2	2							
2X	MID	002	7/13/21	1:10:00 PM	BR	AQ	2	2							
3X	EFF	003	7/13/21	1:00:00 PM	BR	AQ	2	2							

AD24841

V8015GRO

LAB USE ONLY

Comments / Special Instructions

Approved By (SGS PM) / Date:

Turnaround Time (Business days)

Commercial "A" = Results Only
Commercial "B" = Results + OC Summary + Partial Raw data
Commercial "C" = Results + OC Summary + Partial Raw data

- Std. 10 Business Days
- 5 Day RUSH
- 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY
- other Due 7/22/2021

Emergency & RUSH T/A data available VIA Lablink

Approved By (SGS PM) / Date:

Turnaround Time (Business days)

Commercial "A" = Results Only
Commercial "B" = Results + OC Summary + Partial Raw data
Commercial "C" = Results + OC Summary + Partial Raw data

Approved By (SGS PM) / Date:

Turnaround Time (Business days)

Commercial "A" = Results Only
Commercial "B" = Results + OC Summary + Partial Raw data
Commercial "C" = Results + OC Summary + Partial Raw data

Relinquished By: **Joseph A.** Date Time: **7-20-21 13:00**

Received By: **Joseph A.** Date Time: **7-20-21 13:00**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**

Relinquished By: **Joseph A.** Date Time: **7-20-21 16:28**

Received By: **Joseph A.** Date Time: **7-20-21 16:28**



Date / Time: 7/19/2021 4:40:17 PM

CSR: BETHW

Job #: JD28395X

Client Project: HESS #20204, 1613 East Joppa Road, Towson, M

Deliverable: COMMA

TAT: Due 7/22/2021

Sub Lab: Hampton-Clarke

Address: 175 Route 46 West, Unit D

City: Fairfield

State: NJ

Zip: 07004

Contact: Sample Management

Phone: 800-426-9992

SGS Sample #	Client Sample Description	Analysis	Location	Sampled By	Date Sampled	Time Sampled	Aliquot
JD28395-1X	INF	V8015GRO		BR	7/13/2021	1:20:00 PM	
JD28395-2X	MID	V8015GRO		BR	7/13/2021	1:10:00 PM	
JD28395-3X	EFF	V8015GRO		BR	7/13/2021	1:00:00 PM	

Comments: Please email sample receipt confirmation & report to beth.wasserman@sgs.com, jadon.schiller@sgs.com. Please email invoice to beth.wasserman@sgs.com, angela.wu2@sgs.com

Sample Management Receipt: _____

Date: _____

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

06121 Page 1
BW-061221-158
JD28395

Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes												
Company Name EMS Environmental, Inc.		Project Name: Former Hess - 20204		<input type="checkbox"/> 624 <input type="checkbox"/> 621 <input type="checkbox"/> 602 <input type="checkbox"/> 602 <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TBA <input type="checkbox"/> NAP <input type="checkbox"/> 824 <input type="checkbox"/> 624 <input type="checkbox"/> TCL <input type="checkbox"/> PPL <input type="checkbox"/> STARS <input type="checkbox"/> MTBE <input type="checkbox"/> TBA <input type="checkbox"/> NAP <input type="checkbox"/> +10 <input type="checkbox"/> +15 <input type="checkbox"/> <input type="checkbox"/> 820 <input type="checkbox"/> 825 <input type="checkbox"/> TCL <input type="checkbox"/> PPL <input type="checkbox"/> STARS <input type="checkbox"/> ABND <input type="checkbox"/> AED <input type="checkbox"/> BND <input type="checkbox"/> PAHD <input type="checkbox"/> TICAD <input type="checkbox"/> BTEX, MTBE and Naphthalene by 8260B <input type="checkbox"/> TPH-GRO by 8015B <input type="checkbox"/> TPH-DRO by 8015B												DW- Drinking Water GW- Ground Water WW- Water SW- Surface Water SO- Soil SL- Sludge OI- Oil LIQ- Other Liquid AIR- Air SOL- Other Solid WP- Wipe												
Address 4550 Bath Pike Bethlehem PA 18017		Street 1613 E. Joppa Road Towson MD														LAB USE ONLY												
Project Contact: Jeremy Fox Phone # 610-866-7799 E-mail jfox@emsenv.com		Project # 5713 Fax # 610-866-8195 Client Purchase Order # 6713																										
Sampler's Name Brad Rohrbaugh																												
Accutest Sample #	Field ID / Point of Collection	SUMMA #	MEOH Vial #	Date	Time	Collected by	Matrix	# of bottles	HD	INPT	PHD	PHSD	WOL	WELSD	MECH	BUCCON												
1	INF			7/13/2021	1320	BR	WW	7	7								<input checked="" type="checkbox"/> BTEX, MTBE and Naphthalene by 8260B <input checked="" type="checkbox"/> TPH-GRO by 8015B <input checked="" type="checkbox"/> TPH-DRO by 8015B											
2	MID			7/13/2021	1310	BR	WW	7	7								<input checked="" type="checkbox"/> BTEX, MTBE and Naphthalene by 8260B <input checked="" type="checkbox"/> TPH-GRO by 8015B <input checked="" type="checkbox"/> TPH-DRO by 8015B											
3	EFF			7/13/2021	1300	BR	WW	7	7								<input checked="" type="checkbox"/> BTEX, MTBE and Naphthalene by 8260B <input checked="" type="checkbox"/> TPH-GRO by 8015B <input checked="" type="checkbox"/> TPH-DRO by 8015B											
Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks																								
<input type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 6 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> Other 14 Day Hess Standard		Approved By: Date: _____ INITIAL ASSESSMENT _____ LABEL VERIFICATION _____		<input checked="" type="checkbox"/> Commercial "A" <input type="checkbox"/> FULL CLP <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NYASP Category B <input type="checkbox"/> NJ Full <input type="checkbox"/> State Forms <input type="checkbox"/> Other Full TIER 1 <input type="checkbox"/> EDD Format Commercial "A" = Results Only																								
Emergency T/A data available VIA Lablink																												
Sample Custody must be documented below each time samples change possession, including courier delivery.																												
Relinquished By: _____		Date Time: 08:00		Received By: _____		Date Time: 1740		Relinquished By: _____		Date Time: 7:15-21		Received By: _____		Date Time: _____		On Ice <input type="checkbox"/>		Cooler Temp. _____										
1		7-15-21		2		7-15-21		3		4		5		6		7		4.0 CTP										

JD28395X: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: JD28395

Client: EMS ENVIRONMENTAL, INC.

Project: HESS #20204, 1613 EAST JOPPA ROAD, TOWS

Date / Time Received: 7/15/2021 5:40:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	<u>IR Gun</u>	
3. Cooler media:	<u>Ice (Bag)</u>	
4. No. Coolers:	<u>1</u>	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: <u>212820</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

JD28395X: Chain of Custody

Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD29941

Sampling Date: 08/11/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **17**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JD29941-1: INF	6
3.2: JD29941-2: MID	9
3.3: JD29941-3: EFF	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

EMS Environmental, Inc.

Job No: JD29941

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713 PO#5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD29941-1	08/11/21	15:20	BR	08/13/21	AQ Influent	INF
JD29941-2	08/11/21	15:10	BR	08/13/21	AQ Water	MID
JD29941-3	08/11/21	15:00	BR	08/13/21	AQ Effluent	EFF

Summary of Hits

Job Number: JD29941
Account: EMS Environmental, Inc.
Project: HESS #20204, 1613 East Joppa Road, Towson, MD
Collected: 08/11/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD29941-1 INF

Benzene	1.4	0.50	0.43	ug/l	SW846 8260D
Toluene	2.3	1.0	0.53	ug/l	SW846 8260D
Ethylbenzene	20.3	1.0	0.60	ug/l	SW846 8260D
Xylene (total)	98.1	1.0	0.59	ug/l	SW846 8260D
Methyl Tert Butyl Ether	1.9	1.0	0.51	ug/l	SW846 8260D
Naphthalene	32.3	5.0	2.5	ug/l	SW846 8260D
TPH-GRO (C6-C10)	0.826	0.20	0.10	mg/l	SW846 8015D
TPH-DRO (C10-C28)	0.646	0.078	0.050	mg/l	SW846 8015D

JD29941-2 MID

Xylene (total)	2.0	1.0	0.59	ug/l	SW846 8260D
----------------	-----	-----	------	------	-------------

JD29941-3 EFF

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: INF		
Lab Sample ID: JD29941-1		Date Sampled: 08/11/21
Matrix: AQ - Influent		Date Received: 08/13/21
Method: SW846 8260D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112014.D	1	08/23/21 20:05	EH	n/a	n/a	V4D4988
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.4	0.50	0.43	ug/l	
108-88-3	Toluene	2.3	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	20.3	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	98.1	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.51	ug/l	
91-20-3	Naphthalene	32.3	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	112%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF		
Lab Sample ID: JD29941-1		Date Sampled: 08/11/21
Matrix: AQ - Influent		Date Received: 08/13/21
Method: SW846 8015D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111377.D	1	08/23/21 11:48	ED	n/a	n/a	GLM4683
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.826	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	99%		55-130%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 08/11/21
Lab Sample ID: JD29941-1	Date Received: 08/13/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106195.D	1	08/16/21 23:42	TL	08/16/21 12:15	OP34894	G2Y4127
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.646	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	45%		22-140%		
438-22-2	5a-Androstane	36%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 08/11/21
Lab Sample ID: JD29941-2	Date Received: 08/13/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112015.D	1	08/23/21 20:34	EH	n/a	n/a	V4D4988
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	2.0	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID		
Lab Sample ID: JD29941-2		Date Sampled: 08/11/21
Matrix: AQ - Water		Date Received: 08/13/21
Method: SW846 8015D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111376.D	1	08/23/21 11:23	ED	n/a	n/a	GLM4683
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	97%		55-130%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	
Lab Sample ID: JD29941-2	Date Sampled: 08/11/21
Matrix: AQ - Water	Date Received: 08/13/21
Method: SW846 8015D SW846 3510C	Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106196.D	1	08/17/21 00:16	TL	08/16/21 12:15	OP34894	G2Y4127
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	51%		22-140%		
438-22-2	5a-Androstane	51%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 08/11/21
Lab Sample ID: JD29941-3		Date Received: 08/13/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112013.D	1	08/23/21 19:36	EH	n/a	n/a	V4D4988
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	109%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 08/11/21
Lab Sample ID: JD29941-3		Date Received: 08/13/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111389.D	1	08/23/21 16:52	ED	n/a	n/a	GLM4683
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	101%		55-130%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 08/11/21
Lab Sample ID: JD29941-3		Date Received: 08/13/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015D SW846 3510C		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106197.D	1	08/17/21 00:49	TL	08/16/21 12:15	OP34894	G2Y4127
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	51%		22-140%		
438-22-2	5a-Androstane	45%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: JD29941

Client: _____

Project: _____

Date / Time Received: 8/13/2021 3:15:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 212820	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD29941: Chain of Custody

Page 2 of 2

4.1
4

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD30397

Sampling Date: 08/18/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **17**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JD30397-1: INF	6
3.2: JD30397-2: MID	9
3.3: JD30397-3: EFF	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

EMS Environmental, Inc.

Job No: JD30397

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713 PO#5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD30397-1	08/18/21	13:35	BR	08/20/21	AQ Influent	INF
JD30397-2	08/18/21	13:25	BR	08/20/21	AQ Water	MID
JD30397-3	08/18/21	13:15	BR	08/20/21	AQ Effluent	EFF

Summary of Hits

Job Number: JD30397
Account: EMS Environmental, Inc.
Project: HESS #20204, 1613 East Joppa Road, Towson, MD
Collected: 08/18/21

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD30397-1	INF					
Benzene		0.99	0.50	0.43	ug/l	SW846 8260D
Toluene		1.4	1.0	0.53	ug/l	SW846 8260D
Ethylbenzene		15.3	1.0	0.60	ug/l	SW846 8260D
Xylene (total)		53.0	1.0	0.59	ug/l	SW846 8260D
Methyl Tert Butyl Ether		1.4	1.0	0.51	ug/l	SW846 8260D
Naphthalene		19.2	5.0	2.5	ug/l	SW846 8260D
TPH-GRO (C6-C10)		0.550	0.20	0.10	mg/l	SW846 8015D
TPH-DRO (C10-C28)		0.304	0.078	0.050	mg/l	SW846 8015D
JD30397-2	MID					
Xylene (total)		1.4	1.0	0.59	ug/l	SW846 8260D
JD30397-3	EFF					
Xylene (total)		0.86 J	1.0	0.59	ug/l	SW846 8260D

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 08/18/21
Lab Sample ID: JD30397-1	Date Received: 08/20/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112171.D	1	08/28/21 21:31	MD	n/a	n/a	V4D4994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.99	0.50	0.43	ug/l	
108-88-3	Toluene	1.4	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	15.3	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	53.0	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	1.0	0.51	ug/l	
91-20-3	Naphthalene	19.2	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		85-118%
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 08/18/21
Lab Sample ID: JD30397-1	Date Received: 08/20/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8015D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111531.D	1	08/26/21 20:55	ED	n/a	n/a	GLM4687
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.550	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	97%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF	Date Sampled: 08/18/21
Lab Sample ID: JD30397-1	Date Received: 08/20/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100480.D	1	08/26/21 06:53	CP	08/25/21 14:05	OP35074	GZZ3703
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.304	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	63%		22-140%		
438-22-2	5a-Androstane	36%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID		
Lab Sample ID: JD30397-2		Date Sampled: 08/18/21
Matrix: AQ - Water		Date Received: 08/20/21
Method: SW846 8260D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112172.D	1	08/28/21 22:00	MD	n/a	n/a	V4D4994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	1.4	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



Report of Analysis

32
3

Client Sample ID: MID	
Lab Sample ID: JD30397-2	Date Sampled: 08/18/21
Matrix: AQ - Water	Date Received: 08/20/21
Method: SW846 8015D	Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111530.D	1	08/26/21 20:30	ED	n/a	n/a	GLM4687
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	97%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 08/18/21
Lab Sample ID: JD30397-2	Date Received: 08/20/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100481.D	1	08/26/21 07:26	CP	08/25/21 14:05	OP35074	GZZ3703
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	68%		22-140%		
438-22-2	5a-Androstane	44%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 08/18/21
Lab Sample ID: JD30397-3	Date Received: 08/20/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112169.D	1	08/28/21 20:35	MD	n/a	n/a	V4D4994
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	0.86	1.0	0.59	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 08/18/21
Lab Sample ID: JD30397-3	Date Received: 08/20/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8015D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111524.D	1	08/26/21 18:02	ED	n/a	n/a	GLM4687
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	101%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 08/18/21
Lab Sample ID: JD30397-3		Date Received: 08/20/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015D SW846 3510C		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100482.D	1	08/26/21 08:00	CP	08/25/21 14:05	OP35074	GZZ3703
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	72%		22-140%		
438-22-2	5a-Androstane	45%		10-135%		

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS Sample Receipt Summary

Job Number: JD30397

Client: EMS ENVIRONMENTAL, INC.

Project: HESS #20204, 1613 EAST JOPPA ROAD, TOW

Date / Time Received: 8/20/2021 5:10:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security

- | | Y or N | | | Y or N | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

- | | Y or N | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

- | | Y | N | N/A |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

- | | Y or N | |
|----------------------------------------|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | Y or N | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

- | | Y | N | N/A |
|-------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 212820	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD30397: Chain of Custody

Page 2 of 2

4.1
4

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD30980

Sampling Date: 09/01/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **17**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JD30980-1: INF	6
3.2: JD30980-2: MID	9
3.3: JD30980-3: EFF	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

EMS Environmental, Inc.

Job No: JD30980

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713 PO#5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD30980-1	09/01/21	14:20	BR	09/03/21	AQ Influent	INF
JD30980-2	09/01/21	14:10	BR	09/03/21	AQ Water	MID
JD30980-3	09/01/21	14:00	BR	09/03/21	AQ Effluent	EFF

Summary of Hits

Job Number: JD30980

Account: EMS Environmental, Inc.

Project: HESS #20204, 1613 East Joppa Road, Towson, MD

Collected: 09/01/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD30980-1	INF					
Benzene		1.5	0.50	0.43	ug/l	SW846 8260D
Toluene		2.2	1.0	0.53	ug/l	SW846 8260D
Ethylbenzene		12.7	1.0	0.60	ug/l	SW846 8260D
Xylene (total)		91.5	1.0	0.59	ug/l	SW846 8260D
Methyl Tert Butyl Ether		2.0	1.0	0.51	ug/l	SW846 8260D
Naphthalene		21.4	5.0	2.5	ug/l	SW846 8260D
TPH-GRO (C6-C10)		0.982	0.20	0.10	mg/l	SW846 8015D
TPH-DRO (C10-C28)		0.560	0.083	0.053	mg/l	SW846 8015D
JD30980-2	MID					
Ethylbenzene		0.83 J	1.0	0.60	ug/l	SW846 8260D
Xylene (total)		6.0	1.0	0.59	ug/l	SW846 8260D
TPH-GRO (C6-C10)		0.120 J	0.20	0.10	mg/l	SW846 8015D
JD30980-3	EFF					
Xylene (total)		1.6	1.0	0.59	ug/l	SW846 8260D
TPH-GRO (C6-C10)		0.101 J	0.20	0.10	mg/l	SW846 8015D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: INF		Date Sampled: 09/01/21
Lab Sample ID: JD30980-1		Date Received: 09/03/21
Matrix: AQ - Influent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A212957.D	1	09/12/21 23:04	EH	n/a	n/a	V2A9270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	0.50	0.43	ug/l	
108-88-3	Toluene	2.2	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	12.7	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	91.5	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.51	ug/l	
91-20-3	Naphthalene	21.4	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		85-118%
17060-07-0	1,2-Dichloroethane-D4	92%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF		
Lab Sample ID: JD30980-1		Date Sampled: 09/01/21
Matrix: AQ - Influent		Date Received: 09/03/21
Method: SW846 8015D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111808.D	1	09/09/21 18:03	ED	n/a	n/a	GLM4696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.982	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	95%		55-130%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 09/01/21
Lab Sample ID: JD30980-1	Date Received: 09/03/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100642.D	1	09/09/21 02:34	CP	09/08/21 15:15	OP35290	GZZ3711
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.560	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		22-140%		
438-22-2	5a-Androstane	49%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID	Date Sampled: 09/01/21
Lab Sample ID: JD30980-2	Date Received: 09/03/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A212956.D	1	09/12/21 22:36	EH	n/a	n/a	V2A9270
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.83	1.0	0.60	ug/l	J
1330-20-7	Xylene (total)	6.0	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		85-118%
17060-07-0	1,2-Dichloroethane-D4	91%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 09/01/21
Lab Sample ID: JD30980-2	Date Received: 09/03/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111805.D	1	09/09/21 16:49	ED	n/a	n/a	GLM4696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.120	0.20	0.10	mg/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	94%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 09/01/21
Lab Sample ID: JD30980-2	Date Received: 09/03/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100643.D	1	09/09/21 03:08	CP	09/08/21 15:15	OP35290	GZZ3711
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	80%		22-140%		
438-22-2	5a-Androstane	57%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 09/01/21
Lab Sample ID: JD30980-3		Date Received: 09/03/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8260D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A213019.D	1	09/14/21 22:15	BK	n/a	n/a	V2A9274
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene ^a	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	1.6	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		85-118%
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 09/01/21
Lab Sample ID: JD30980-3	Date Received: 09/03/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8015D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111804.D	1	09/09/21 16:24	ED	n/a	n/a	GLM4696
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.101	0.20	0.10	mg/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	94%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 09/01/21
Lab Sample ID: JD30980-3	Date Received: 09/03/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZZ100644.D	1	09/09/21 03:42	CP	09/08/21 15:15	OP35290	GZZ3711
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		22-140%		
438-22-2	5a-Androstane	61%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Client / Reporting Information Company Name: EMS Environmental, Inc. Address: 4550 Bath Pike City: Bethlehem PA 18017 Project Contact: Jeremy Fox Phone #: 610-866-7799 Samplers Name: Brad Rohrbaugh		Project Information Project Name: Former Hess - 20204 Street: 1613 E. Joppa Road City: Towson MD Project #: 5713 Client Purchase Order #: 5713		FED-EX Tracking # Bottle Order Control # Accutest Quote # Accutest Job # JD30980	
Requested Analysis <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> NAP <input type="checkbox"/> STARS <input type="checkbox"/> PPL <input type="checkbox"/> PAH <input type="checkbox"/> ARO <input type="checkbox"/> BTEX, MTBE and Naphthalene by 8260B <input type="checkbox"/> TPH-GRO by 8015B <input type="checkbox"/> TPH-DRO by 8015B		Matrix Codes DW- Drinking Water GW- Ground Water WW- Water SW- Surface Water SO- Soil SL- Sludge OI- Oil LIQ- Other Liquid AIR- Air SOL- Other Solid WP- Wipe LAB USE ONLY			
Turnaround Time (Business days) <input type="checkbox"/> Std. 16 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> Other 14 Day Hess Standard		Approved By / Date: _____ _____		Data Deliverable Information <input checked="" type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other Full TIER 1 <input type="checkbox"/> FULL CLP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format Commercial "A" = Results Only	
Emergency T/A data available VIA LabLink		Comments / Remarks 0.283007L HCL ORO Initial Assessment SL3A LabLink Verification _____			
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler: 1 <i>Brad Rohrbaugh</i>	Date Time: 9/13/2021 12:12 PM	Received By: Mike Gonorella	Date Time: 9/13/2021 14:38	Received By: _____	Date Time: _____
Relinquished by: _____	Date Time: _____	Received By: _____	Date Time: _____	Received By: _____	Date Time: _____
Relinquished by: _____	Date Time: _____	Received By: _____	Date Time: _____	Received By: _____	Date Time: _____
Relinquished by: _____	Date Time: _____	Received By: _____	Date Time: _____	Received By: _____	Date Time: _____

4.1
4

JD30980: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: JD30980

Client: EMS

Project: FORMER HESS 20204

Date / Time Received: 9/3/2021 11:00:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><u>Y or N</u></p> <p>1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/></p> | <p><u>Y or N</u></p> <p>3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/></p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Cooler Temperature

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><u>Y or N</u></p> <p>1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Cooler temp verification: _____</p> <p>3. Cooler media: <u>Ice (Bag)</u></p> <p>4. No. Coolers: <u>1</u></p> | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

Quality Control Preservation

- | | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

- | | | | |
|----------------------------------------|-------------------------------------|--------------------------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | | |
|----------------------------------|-------------------------------------|--------------------------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | | | | |
|--------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #'s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

JD30980: Chain of Custody

Page 2 of 2

4.1
4

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EMS Environmental, Inc.

HESS #20204, 1613 East Joppa Road, Towson, MD

5713 PO#5713

SGS Job Number: JD31224

Sampling Date: 09/08/21

Report to:

EMS Environmental, Inc.
4550 Bath Pike
Bethlehem, PA 18017
jfox@emsenv.com

ATTN: Jeremy Fox

Total number of pages in report: **17**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JD31224-1: INF	6
3.2: JD31224-2: MID	9
3.3: JD31224-3: EFF	12
Section 4: Misc. Forms	15
4.1: Chain of Custody	16



Sample Summary

EMS Environmental, Inc.

Job No: JD31224

HESS #20204, 1613 East Joppa Road, Towson, MD
Project No: 5713 PO#5713

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD31224-1	09/08/21	13:20	BR	09/09/21	AQ Influent	INF
JD31224-2	09/08/21	13:10	BR	09/09/21	AQ Water	MID
JD31224-3	09/08/21	13:00	BR	09/09/21	AQ Effluent	EFF

Summary of Hits

Job Number: JD31224
Account: EMS Environmental, Inc.
Project: HESS #20204, 1613 East Joppa Road, Towson, MD
Collected: 09/08/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD31224-1 INF

Benzene	1.5	0.50	0.43	ug/l	SW846 8260D
Toluene	2.0	1.0	0.53	ug/l	SW846 8260D
Ethylbenzene	18.7	1.0	0.60	ug/l	SW846 8260D
Xylene (total)	69.5	1.0	0.59	ug/l	SW846 8260D
Methyl Tert Butyl Ether	2.1	1.0	0.51	ug/l	SW846 8260D
Naphthalene	24.5	5.0	2.5	ug/l	SW846 8260D
TPH-GRO (C6-C10)	0.741	0.20	0.10	mg/l	SW846 8015D
TPH-DRO (C10-C28)	0.566	0.078	0.050	mg/l	SW846 8015D

JD31224-2 MID

No hits reported in this sample.

JD31224-3 EFF

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 09/08/21
Lab Sample ID: JD31224-1	Date Received: 09/09/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D198801.D	1	09/20/21 18:55	JS	n/a	n/a	V2D8645
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	0.50	0.43	ug/l	
108-88-3	Toluene	2.0	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	18.7	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	69.5	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.51	ug/l	
91-20-3	Naphthalene	24.5	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INF		
Lab Sample ID: JD31224-1		Date Sampled: 09/08/21
Matrix: AQ - Influent		Date Received: 09/09/21
Method: SW846 8015D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111933.D	1	09/14/21 11:41	ED	n/a	n/a	GLM4700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.741	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	89%		55-130%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: INF	Date Sampled: 09/08/21
Lab Sample ID: JD31224-1	Date Received: 09/09/21
Matrix: AQ - Influent	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106526.D	1	09/14/21 17:57	TL	09/14/21 08:35	OP35374	G2Y4140
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.566	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	50%		22-140%		
438-22-2	5a-Androstane	38%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID		
Lab Sample ID: JD31224-2		Date Sampled: 09/08/21
Matrix: AQ - Water		Date Received: 09/09/21
Method: SW846 8260D		Percent Solids: n/a
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D198802.D	1	09/20/21 19:24	JS	n/a	n/a	V2D8645
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 09/08/21
Lab Sample ID: JD31224-2	Date Received: 09/09/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111932.D	1	09/14/21 11:16	ED	n/a	n/a	GLM4700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	88%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MID	Date Sampled: 09/08/21
Lab Sample ID: JD31224-2	Date Received: 09/09/21
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8015D SW846 3510C	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106527.D	1	09/14/21 18:30	TL	09/14/21 08:35	OP35374	G2Y4140
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	50%		22-140%		
438-22-2	5a-Androstane	41%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF	Date Sampled: 09/08/21
Lab Sample ID: JD31224-3	Date Received: 09/09/21
Matrix: AQ - Effluent	Percent Solids: n/a
Method: SW846 8260D	
Project: HESS #20204, 1613 East Joppa Road, Towson, MD	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D198800.D	1	09/20/21 18:25	JS	n/a	n/a	V2D8645
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 09/08/21
Lab Sample ID: JD31224-3		Date Received: 09/09/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015D		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LM111931.D	1	09/14/21 10:51	ED	n/a	n/a	GLM4700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	89%		55-130%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFF		Date Sampled: 09/08/21
Lab Sample ID: JD31224-3		Date Received: 09/09/21
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015D SW846 3510C		
Project: HESS #20204, 1613 East Joppa Road, Towson, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y106528.D	1	09/14/21 19:03	TL	09/14/21 08:35	OP35374	G2Y4140
Run #2							

	Initial Volume	Final Volume
Run #1	320 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.078	0.050	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	48%		22-140%		
438-22-2	5a-Androstane	43%		10-135%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ww

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

FED-EX Tracking #	Bottle Order Control # BW-021921-195
Accutest Quote #	Accutest Job # JD31224

Client / Reporting Information		Project Information		Requested Analysis		Matrix Codes	
Company Name EMS Environmental, Inc.		Project Name Former Hess - 20204					
Address 4550 Bath Pike		Street 1613 E. Joppa Road					
City Bethlehem	State PA	Zip 18017	City Towson	State MD			
Project Contact: Jeremy Fox		E-mail fox@emsenv.com	Project # 5713				
Phone # 610-866-7799		Fax # 610-866-8195					
Samplers Name Brad Rothbaugh		Client Purchase Order # 5713					
Accutest	SUMMA #	Collection		Number of preserved Bottles			
Sample #	Field ID / Point of Collection	MEOH Vial #	9/8/2021	Time	Sampled by	Matrix	# of bottles
1	INF		9/8/2021	1320	BR	WW	7
2	MID		9/8/2021	1310	BR	WW	7
3	EFF		9/8/2021	1300	BR	WW	7

<input type="checkbox"/> 8200	<input type="checkbox"/> 8201	<input type="checkbox"/> 8021	<input type="checkbox"/> 8022	<input type="checkbox"/> 8260	<input type="checkbox"/> 8261	<input type="checkbox"/> 8262	<input type="checkbox"/> 8263	<input type="checkbox"/> 8264	<input type="checkbox"/> 8265	<input type="checkbox"/> 8266	<input type="checkbox"/> 8267	<input type="checkbox"/> 8268	<input type="checkbox"/> 8269	<input type="checkbox"/> 8270	<input type="checkbox"/> 8271	<input type="checkbox"/> 8272	<input type="checkbox"/> 8273	<input type="checkbox"/> 8274	<input type="checkbox"/> 8275	<input type="checkbox"/> 8276	<input type="checkbox"/> 8277	<input type="checkbox"/> 8278	<input type="checkbox"/> 8279	<input type="checkbox"/> 8280	<input type="checkbox"/> 8281	<input type="checkbox"/> 8282	<input type="checkbox"/> 8283	<input type="checkbox"/> 8284	<input type="checkbox"/> 8285	<input type="checkbox"/> 8286	<input type="checkbox"/> 8287	<input type="checkbox"/> 8288	<input type="checkbox"/> 8289	<input type="checkbox"/> 8290	<input type="checkbox"/> 8291	<input type="checkbox"/> 8292	<input type="checkbox"/> 8293	<input type="checkbox"/> 8294	<input type="checkbox"/> 8295	<input type="checkbox"/> 8296	<input type="checkbox"/> 8297	<input type="checkbox"/> 8298	<input type="checkbox"/> 8299	<input type="checkbox"/> 8300
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Turnaround Time (Business days)	Approved By / Date:	Data Deliverable information	Comments / Remarks
<input type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> Other 14 Day Hess Standard	_____	<input checked="" type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other Full TIER 1 Commercial "A" = Results Only	Initial Assessment 2A.SS. Label Verification _____

Emergency T/A data available VIA Lablink			
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: Brad Rothbaugh	Date Time: 9/8/21 08:30	Received By: Mike Gonnella	Date Time: 9/8/21 15:50
Relinquished by:	Date Time:	Received By:	Date Time:
3		4	
Relinquished by:	Date Time:	Received By:	Date Time:
5		5	

JD31224: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD31224

Client: EMS ENVIRONMENTAL, INC.

Project: HESS #20204, 1613 EAST JOPPA ROAD, TOWS

Date / Time Received: 9/9/2021 3:50:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD31224: Chain of Custody

Page 2 of 2

4.1
4