



**FOURTH QUARTER 2022 HIGH RISK GROUNDWATER USE AREA (HRGUA)
GROUNDWATER MONITORING REPORT**

**Sunoco Duns #0651-9128
355 Telegraph Road
Rising Sun, MD 21911
Facility ID No. 2823
Case No. 2021-0202-CE**

Prepared For:

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January 19, 2023

GROUNDWATER MONITORING REPORT

Site Name: Sunoco Duns #0651-9128

Site Address: 355 Telegraph Road
Rising Sun, MD 21911
(*Figure 1*)

Client Information: Sunoco, LP/Evergreen Resources Group, LLC
2 Righter Parkway, Suite 120
Wilmington, DE 19803

Client Contact: Susan Shirer

Regulatory Contacts: Lindley Campbell – Maryland Department of the Environment

Field Activities: Groundwater Gauging and Sampling

Monitoring Period: October 1, 2022 – December 31, 2022

Gauging Activities: Monitoring wells MW-1, MW-2, MW-3, MW-4, and tank field wells TF-1 and TF-2, were gauged on December 27, 2022. Wells were gauged using an electronic interface probe capable of measuring Light Non-Aqueous Phase Liquids (LNAPL) to 0.01 foot. LNAPL was not detected in the monitoring well network on December 27, 2022. Monitoring well depth to water measurements ranged from approximately 2.92 feet (MW-4) to 4.01 feet (MW-3) below the top of the well casing. Prior to gauging the wells, the headspace of the well was screened using a photoionization detector (PID) immediately after removing the well cap. PID readings are presented below:

Well ID	PID Reading (ppm)
MW-1	8.4
MW-2	91.9
MW-3	109.3
MW-4	0.1
TF-1	0.5
TF-2	0.4

Historic monitoring well gauging data are summarized in *Table 1*. Gauging locations are depicted on *Figure 2* and a potentiometric surface map based on the December 27, 2022, gauging data is provided as *Figure 3*. Groundwater flow direction was determined to be towards the west at a gradient of approximately 0.24%.

Groundwater Sampling: On December 27, 2022, monitoring wells MW-1, MW-2, MW-3, MW-4, TF-1, and TF-2 were purged of approximately three well volumes of groundwater and sampled using disposable

polyethylene bailers. Groundwater samples were then transferred into laboratory supplied containers, and immediately placed on ice.

To minimize the potential for cross contamination during sample collection, all reusable equipment was decontaminated prior to use. Decontamination procedures consisted of using distilled water and Liquinox soap solution wash, a distilled water rinse, a final distilled water rinse, and air drying.

Monitoring well samples were shipped under standard chain of custody procedures to Pace Analytical Services, National Center for Testing and Analysis (Pace) in Mount Juliet, Tennessee for analysis of volatile organic compounds (VOCs) fuel oxygenates and naphthalene in accordance with EPA Method 8260.

On December 27, 2022, EnviroTrac also collected a potable water sample from the onsite water supply well designated as PW-1. The sample was placed into a laboratory supplied container, and immediately placed on ice. The potable water sample was shipped to Pace for analysis of VOCs in accordance with EPA Methods 524.2 and 8260 including oxygenates and naphthalene.

Groundwater Analytical Summary:

The results of the December 27, 2022, groundwater sampling event indicated that the samples from PW-1, TF-1, TF-2, and MW-4 were below the analytical detection limits for VOCs and TPH DRO/GRO. The results from wells MW-1, MW-2, and MW-3 remained relatively consistent with the results of the previous sampling events. The following is a summary of the laboratory analytical results that exceeded the MDE's Generic Numeric Cleanup Standards (GNCS) for Type I & II Aquifers:

- MW-1 reported exceedances of TPH DRO at 1260 µg/L, and TPH GRO at 663 µg/L;
- MW-2 reported exceedances of TPH DRO at 267 µg/L; and
- MW-3 reported exceedances of Benzene at 18.50 µg/L, TPH DRO at 248 µg/L, and TPH GRO at 202 µg/L.

A copy of the laboratory analytical report is included in **Appendix A**; historic groundwater analytical data are summarized in **Tables 1 and 2**; a geographic distribution of the groundwater analytical data is provided as **Figure 4**.

Conclusions:

The well directly downgradient of the tank field and dispenser islands, MW-3, exhibited the highest petroleum impact exceeding the MDE GNCS for Type I and II Aquifers for concentrations of Benzene, TPH DRO, and TPH GRO. The cross-gradient well MW-1 exhibited petroleum impact exceeding the MDE GNCS for Type I and II Aquifers for concentrations of TPH DRO and TPH GRO. The cross-gradient well, MW-2, exhibited less petroleum impact

exceeding the MDE GNCS for Type I and II Aquifers for concentrations of TPH DRO. Concentrations of all contaminants of concern were below laboratory detection limits in TF-1, TF-2, MW-4, and the potable well sample, PW-1.

Monitoring wells MW-1 and MW-3 were evaluated using Mann-Kendall statistical analysis to determine constituent trends. The following is a summary of the Mann-Kendall analysis results:

- Concentrations of benzene are decreasing in MW-1 and MW-3;
- Concentrations of MTBE are decreasing in MW-1 and MW-3;
- Concentrations of TPH GRO are decreasing in MW-1 and MW-3;
- Concentrations of TPH DRO are decreasing in MW-1 and MW-3.

Mann-Kendall trends are included in **Appendix B**.

Future Site Activities:

Based on the results of the Mann-Kendall Trend Analysis and the monitoring results from eight quarters of sampling during 2021 and 2022, EnviroTrac recommends reducing the monitoring frequency to annual or bi-annual sampling in 2023. Following the sampling event(s), a groundwater monitoring and sampling report will be prepared and submitted to MDE that includes a dissolved hydrocarbon trend analysis.

Attachments:

- Table 1: Monitoring Well Gauging Data and Historical Groundwater Analytical Summary
- Table 2: Historical Potable Well Analytical Summary
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Potentiometric Surface Map
- Figure 4: Groundwater Analytical Results Map
- Appendix A: Analytical Laboratory Report
- Appendix B: Mann-Kendall Statistical Analysis

TABLES

TABLE 1
MONITORING WELL GAUGING DATA AND HISTORICAL GROUNDWATER ANALYTICAL SUMMARY

Sunoco Duns #0651-9128
355 Telegraph Road
Rising Sun, MD 21911
Facility ID No. 2823

Sample ID	Date	Gauging Data						Analytical Data															
		Top of Casing Elevation	PID (ppm)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Cumene (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2,4 Trimethylbenzene (µg/L)	1,3,5 Trimethylbenzene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)
MW-1	7/7/2005	98.50	--	5.32	ND	ND	93.18	160	490	240	1300	2190	280	--	--	NA	NA	NA	NA	--	--	NA	NA
	12/14/2005	98.50	--	4.57	ND	ND	93.93	1030	2020	473	2360	5883	1910	--	--	NA	NA	NA	NA	--	--	NA	NA
	4/20/2006	98.50	--	5.02	ND	ND	93.48	2090	6960	1740	7740	18530	3000	--	--	NA	NA	NA	NA	--	--	NA	NA
	12/28/2006	98.50	--	3.63	ND	ND	94.87	1910	5060	1580	7990	16540	2740	--	--	NA	NA	NA	NA	--	--	NA	NA
	6/27/2007	98.50	--	5.52	ND	ND	92.98	460	83	650	2100	3293	990	--	--	NA	NA	NA	NA	--	--	NA	NA
	1/23/2008	98.50	--	4.31	ND	ND	94.19	910	1200	1400	5800	9310	2300	--	--	35	ND(20)	300	1500	--	--	NA	NA
	6/9/2008	98.50	--	5.11	ND	ND	93.39	800	330	1700	6800	9630	1400	--	--	ND(25)	ND(25)	180	1800	--	--	4200	27000
	12/7/2008	98.50	--	4.53	ND	ND	93.97	690	560	1100	4100	6450	1200	--	--	22	ND(20)	170	1300	--	--	3100	16000
	6/1/2009	98.50	--	4.11	ND	ND	94.39	1100	540	2500	10000	14140	1300	--	--	29	ND(25)	210	1900	--	--	5500	41000
	1/6/2010	98.50	--	3.99	ND	ND	94.51	800	480	2100	8000	11380	1500	--	--	ND(25)	ND(25)	180	2400	--	--	6600	36000
	6/22/2010	98.50	--	6.25	ND	ND	92.25	410	26	1600	2400	4436	1000	--	--	ND(25)	ND(25)	110	2000	--	--	4700	15000
	12/9/2010	98.50	--	4.55	ND	ND	93.95	210	40	580	840	1670	400	--	--	11	ND(5)	55	690	--	--	1800	6300
	12/22/2011	98.50	--	3.91	ND	ND	94.59	240	38	570	540	1388	330	--	--	NA	NA	NA	NA	--	--	NA	NA
	12/17/2012	98.50	--	4.61	ND	ND	93.89	83	16	590	130	819	260	--	--	NA	NA	NA	59	--	--	NA	NA
	12/30/2013	98.50	--	3.55	ND	ND	94.95	130	15	440	130	715	180	--	--	NA	NA	NA	360	--	--	NA	NA
	12/9/2014	98.50	--	3.83	ND	ND	94.67	39	2 J	170	12	221	70	--	--	NA	NA	NA	180	--	--	NA	NA
	12/2/2015	98.50	--	3.77	ND	ND	94.73	12	ND(1)	110	6	128	20	--	--	NA	NA	NA	82	--	--	NA	NA
	12/14/2016	98.50	--	4.47	ND	ND	94.03	8	1	71	3	83	21	--	--	NA	NA	NA	NA	--	--	NA	NA
	12/7/2017	98.50	--	4.52	ND	ND	93.98	13	1	32	9	55	31	--	--	3	ND(1)	ND(1)	160	--	--	NA	NA
	10/30/2018	98.50	--	3.72	ND	ND	94.78	4	ND(1)	ND(1)	ND(5)	4	8	--	--	ND(1)	ND(1)	1	73	--	--	NA	NA
	10/2/2019	98.50	113.4	5.66	ND	ND	92.84	7	ND(1)	ND(1)	ND(3)	7	1.91	13.7	3.36	ND(1)	ND(1)	ND(1)	21.0	ND(1)	ND(1)	NA	NA
	8/26/2020	98.50	55.1	4.45	ND	ND	94.05	40.6	1.9	26.0	14.9	83.4	12.9	125	36	1.4	ND(1)	ND(1)	87.7	4.74	1.96	NA	NA
	11/6/2020	98.50	58.3	4.00	ND	ND	94.50	23.9	1.1	17.6	14.2	56.8	11.1	80.7	14.0	1.4	ND(1)	2.3	70.1	6.5	1.2	NA	NA
	2/17/2021	98.50	38.1	3.36	ND	ND	95.14	11.6	ND(1)	6.6	4.8	23.0	5.86	ND(5)	ND(1)	ND(1)	ND(1)	1.11	84.3	7.01	1.96	NA	NA
	6/29/2021	98.50	146.1	4.48	ND	ND	94.02	67.0	ND(10)	ND(10)	35	101.9	21.6	89.1	NA	ND(10)	ND(10)	ND(10)	132	32.7	ND(10)	2500	1730
9/30/2021	98.50	73.1	4.10	ND	ND	94.40	7.8	ND(1)	ND(1)	ND(3)	7.8	8.04	19.8	NA	ND(1)	ND(1)	1.76	58	ND(1)	ND(1)	213	786	
12/21/2021	98.50	60.1	4.40	ND	ND	94.10	1.5	ND(1)	ND(1)	ND(3)	1.5	9.34	ND(5)	NA	ND(1)	ND(1)	1.94	55.9	ND(1)	ND(1)	689	402	
3/15/2022	98.50	20.1	3.82	ND	ND	94.68	118	7.58	392	191	708.6	33.6	325	NA	2.43	ND(1)	ND(1)	152	282	6.27	4210	6150	
6/17/2022	98.50	18.9	4.08	ND	ND	94.42	42	2.05	2	8	53.3	18.8	6.71	NA	1.93	ND(1)	ND(1)	104	6.66	ND(1)	2300	1610	
9/23/2022	98.50	10.1	4.70	ND	ND	93.80	ND(20)	ND(20)	ND(20)	ND(60)	BRL	ND(20)	ND(100)	NA	ND(20)	ND(20)	ND(20)	ND(100)	ND(20)	ND(20)	830	256	
12/27/2022	98.50	8.4	3.89	ND	ND	94.61	ND(20)	ND(20)	ND(20)	ND(60)	BRL	ND(20)	ND(100)	NA	ND(20)	ND(20)	ND(20)	ND(100)	ND(20)	ND(20)	1260	663	

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MW-2	7/7/2005	98.74		4.91	ND	ND	93.83	ND(25)	ND(25)	ND(25)	ND(50)	BRL	2900	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/14/2005	98.74		3.94	ND	ND	94.80	ND(5)	ND(5)	ND(5)	ND(5)	BRL	1050	--	--	NA	NA	NA	NA	--	--	NA	NA	
	4/20/2006	98.74		4.56	ND	ND	94.18	ND(5)	ND(5)	4.1	ND(5)	4.1	178	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/28/2006	98.74		3.04	ND	ND	95.70	ND(0.21)	0.97 J	0.39 J	2	3.36 J	14.9	--	--	NA	NA	NA	NA	--	--	NA	NA	
	6/27/2007	98.74		4.98	ND	ND	93.76	ND(5)	ND(5)	0.9 J	1 J	1.9 J	36	--	--	NA	NA	NA	NA	--	--	NA	NA	
	1/23/2008	98.74		3.77	ND	ND	94.97	ND(5)	ND(5)	ND(5)	ND(5)	BRL	10	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	NA	NA	
	6/9/2008	98.74		4.59	ND	ND	94.15	ND(5)	ND(5)	ND(5)	ND(5)	BRL	32	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	1000	81	
	12/7/2008	98.74		4.19	ND	ND	94.55	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	560	ND(50)	
	6/1/2009	98.74		5.92	ND	ND	92.82	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	910	ND(50)	
	1/6/2010	98.74		3.26	ND	ND	95.48	ND(5)	ND(5)	11	27	38	10	--	--	ND(5)	ND(5)	ND(5)	120	--	--	2000	560	
	6/22/2010	98.74		5.51	ND	ND	93.23	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	370	ND(50)	
	12/9/2010	98.74		3.85	ND	ND	94.89	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	470	ND(50)	
	12/22/2011	98.74		3.36	ND	ND	95.38	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/17/2012	98.74		3.85	ND	ND	94.89	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	NA	NA	NA	ND(80)	--	--	NA	NA	
	12/30/2013	98.74		2.50	ND	ND	96.24	1	ND(1)	2	1	4	5	--	--	NA	NA	NA	100	--	--	NA	NA	
	12/9/2014	98.74		2.95	ND	ND	95.79	ND(5)	ND(5)	ND(5)	ND(5)	BRL	1 J	--	--	NA	NA	NA	ND(80)	--	--	NA	NA	
	12/2/2015	98.74		3.20	ND	ND	95.54	ND(1)	ND(1)	ND(1)	ND(1)	BRL	ND(1)	--	--	NA	NA	NA	9	--	--	NA	NA	
	12/14/2016	98.74		4.57	ND	ND	94.17	ND(1)	ND(1)	ND(1)	ND(1)	BRL	ND(1)	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/7/2017	98.74		4.46	ND	ND	94.28	14	ND(1)	18	4	36	8	--	--	ND(1)	ND(1)	ND(1)	ND(20)	--	--	NA	NA	
	10/30/2018	98.74		3.63	ND	ND	95.11	1	ND(1)	1	ND(5)	2	3	--	--	ND(1)	ND(1)	ND(1)	71	--	--	NA	NA	
	10/2/2019	98.74	68.8		5.78	ND	ND	92.96	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	NA	NA
	8/26/2020	98.74	43.2		4.51	ND	ND	94.23	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	7.52	ND(1)	ND(1)	ND(1)	ND(1)	6.1	ND(1)	ND(1)	NA	NA
	11/6/2020	98.74	40.0		3.98	ND	ND	94.76	ND(2)	ND(2)	ND(2)	ND(2)	BRL	ND(1)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	6.1	ND(2)	ND(2)	NA	NA
	2/17/2021	98.74	9.8		3.39	ND	ND	95.35	1.7	ND(1)	2.2	ND(3)	3.9	ND(1)	8.63	2.6	ND(1)	ND(1)	ND(1)	423	2.99	ND(1)	NA	NA
	6/29/2021	98.74	68.7		4.57	ND	ND	94.17	1.0	ND(1)	ND(1)	ND(3)	1.0	1.23	ND(5)	NA	ND(1)	ND(1)	ND(1)	25.3	ND(1)	ND(1)	1430	282
9/30/2021	98.74	98.2		4.07	ND	ND	94.67	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	6.14	ND(1)	ND(1)	ND(100)	ND(100)	
12/21/2021	98.74	108.3		4.50	ND	ND	94.24	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	5.81	ND(1)	ND(1)	195	ND(100)	
3/15/2022	98.74	182.3		3.70	ND	ND	95.04	2.93	ND(1)	1.22	ND(3)	4.2	1.78	18.1	NA	ND(1)	ND(1)	ND(1)	36.7	2.44	ND(1)	1900	701	
6/17/2022	98.74	206.1		4.12	ND	ND	94.62	1.70	ND(1)	ND(1)	ND(3)	1.7	1.18	6.39	NA	ND(1)	ND(1)	ND(1)	29.5	1.64	ND(1)	1330	289	
9/23/2022	98.74	191.3		4.77	ND	ND	93.97	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	213	ND(100)	
12/27/2022	98.74	91.9		3.80	ND	ND	94.94	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	11.3	ND(1)	ND(1)	267	ND(100)	

TABLE 1
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		Gauging Data						Analytical Data																
Sample ID	Date	Top of Casing Elevation	PID (ppm)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Cumene (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2,4 Trimethylbenzene (µg/L)	1,3,5 Trimethylbenzene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	
MW-3	7/7/2005	98.51		5.92	ND	ND	92.59	310	330	80	400	1120	3000	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/14/2005	98.51		5.14	ND	ND	93.37	119	65.4	121	980	1285	2500	--	--	NA	NA	NA	NA	--	--	NA	NA	
	4/20/2006	98.51		5.61	ND	ND	92.90	87.1	118	87.9	547	840	1970	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/28/2006	98.51		4.51	ND	ND	94.00	8.1	2.2 J	2 J	5.9	18.2 J	1820	--	--	NA	NA	NA	NA	--	--	NA	NA	
	6/27/2007	98.51		5.91	ND	ND	92.60	580	570	170	1100	2420	2100	--	--	NA	NA	NA	NA	--	--	NA	NA	
	1/23/2008	98.51		4.90	ND	ND	93.61	160	11	22	43	236	1600	--	--	ND(10)	ND(10)	110	820	--	--	NA	NA	
	6/9/2008	98.51		5.63	ND	ND	92.88	1100	500	130	360	2090	1400	--	--	ND(20)	ND(20)	110	850	--	--	2300	7300	
	12/7/2008	98.51		5.21	ND	ND	93.30	ND(5)	ND(5)	ND(5)	9	9	730	--	--	ND(5)	ND(5)	ND(5)	970	--	--	3200	1100	
	6/1/2009	98.51		5.41	ND	ND	93.10	420	30	66	120	636	1400	--	--	ND(5)	ND(5)	87	1900	--	--	1100	2700	
	1/6/2010	98.51		3.51	ND	ND	95.00	300	24	68	120	512	1100	--	--	ND(10)	ND(10)	21	1800	--	--	920	3200	
	6/22/2010	98.51		7.31	ND	ND	91.20	590	23	130	160	903	760	--	--	ND(13)	ND(13)	40	1900	--	--	1900	3400	
	12/9/2010	98.51		5.02	ND	ND	93.49	43	ND(5)	27	39	109	470	--	--	ND(5)	ND(5)	ND(5)	1700	--	--	670	750	
	12/22/2011	98.51		4.65	ND	ND	93.86	39	ND(5)	18	18	75	150	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/17/2012	98.51		4.76	ND	ND	93.75	340	45	270	410	1065	110	--	--	NA	NA	NA	110	--	--	NA	NA	
	12/30/2013	98.51		3.54	ND	ND	94.97	180	31	360	860	1431	13	--	--	NA	NA	NA	65	--	--	NA	NA	
	12/9/2014	98.51		4.12	ND	ND	94.39	150	9	150	210	519	12	--	--	NA	NA	NA	ND(80)	--	--	NA	NA	
	12/2/2015	98.51		3.98	ND	ND	94.53	200	25	340	510	1075	19	--	--	NA	NA	NA	35	--	--	NA	NA	
	12/14/2016	98.51		4.76	ND	ND	93.75	61	17	450	640	1168	18	--	--	NA	NA	NA	NA	--	--	NA	NA	
	12/7/2017	98.51		4.81	ND	ND	93.70	15	ND(1)	19	4	38	8	--	--	ND(1)	ND(1)	2	ND(20)	--	--	NA	NA	
	10/30/2018	98.51		4.15	ND	ND	94.36	88	4	40	32	164	9	--	--	ND(1)	ND(1)	2	ND(25)	--	--	NA	NA	
	10/2/2019	98.51	192.6		5.79	ND	ND	92.72	59.4	3.8	12.9	12.9	89	7.45	ND(5)	1.59	ND(1)	ND(1)	1.69	ND(5)	21.8	6.42	NA	NA
	8/26/2020	98.51	72.6		4.84	ND	ND	93.67	546	50.4	63.3	33.7	693	28.6	19.8	11.3	ND(1)	ND(1)	ND(1)	31.9	94.7	34.5	NA	NA
	11/6/2020	98.51	131.8		4.25	ND	ND	94.26	315	15.1	36.8	33.4	400	20	16.7	6.2	ND(4)	ND(4)	ND(30)	31.9	64.9	18.9	NA	NA
2/17/2021	98.51	83.9		3.61	ND	ND	94.90	90.5	5.1	100	134	329.6	26.2	262	54.5	2.05	ND(1)	5.42	1010	133	6.34	NA	NA	
6/29/2021	98.51	176.1		4.76	ND	ND	93.75	149.0	ND(10)	35.5	ND(30)	184.5	10.5	ND(50)	NA	ND(10)	ND(10)	ND(10)	ND(50)	43.4	13.0	992	1050	
9/30/2021	98.51	215.5		4.30	ND	ND	94.21	127.0	ND(5)	32.8	27	187.0	7.95	ND(25)	NA	ND(5)	ND(5)	ND(5)	ND(25)	22.7	8.9	871	305	
12/21/2021	98.51	202.2		4.56	ND	ND	93.95	47.1	ND(1)	1.92	3.35	52.4	5.00	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	2.86	ND(1)	354	296	
3/15/2022	98.51	305.8		3.90	ND	ND	94.61	9.03	ND(1)	ND(1)	ND(3)	9.03	7.96	ND(5)	NA	ND(1)	ND(1)	1.69	9.40	ND(1)	ND(1)	446	234	
6/17/2022	98.51	298.3		4.42	ND	ND	94.09	28.40	ND(1)	3.39	ND(3)	31.79	4.92	ND(5)	NA	ND(1)	ND(1)	1.02	ND(5)	7.39	1.69	346	361	
9/23/2022	98.51	183.2		4.91	ND	ND	93.60	36.10	1.2	7.40	12.30	57.0	5.11	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	12.2	3.30	221	262	
12/27/2022	98.51	109.3		4.01	ND	ND	94.50	18.50	ND(1)	1.09	ND(3)	19.6	2.51	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	1.40	ND(1)	248	202	
MW-4	6/29/2021	NSVD	0.0	4.59	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(105)	ND(100)	
	9/30/2021	97.46	0.2	4.15	ND	ND	93.31	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	12/21/2021	97.46	1.5	4.70	ND	ND	92.76	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	154	ND(100)	
	3/15/2022	97.46	0.0	4.05	ND	ND	93.41	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	6/17/2022	97.46	0.1	2.68	ND	ND	94.78	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	9/23/2022	97.46	1.1	5.14	ND	ND	92.32	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
12/27/2022	97.46	0.1	2.92	ND	ND	94.54	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		

TABLE 1
MONITORING WELL GAUGING DATA AND HISTORICAL GROUNDWATER ANALYTICAL SUMMARY

Sunoco Duns #0651-9128
355 Telegraph Road
Rising Sun, MD 21911
Facility ID No. 2823

Sample ID	Date	Gauging Data						Analytical Data																
		Top of Casing Elevation	PID (ppm)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Cumene (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2,4 Trimethylbenzene (µg/L)	1,3,5 Trimethylbenzene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	
TF-1	1/6/2010	NSVD		3.26	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(95)	ND(50)	
	6/22/2010	NSVD		5.31	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(96)	ND(50)	
	12/9/2010	NSVD		4.01	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(95)	ND(50)	
	12/22/2011	NSVD		3.51	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/17/2012	NSVD		4.17	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/30/2013	NSVD		3.04	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	NSVD		2.90	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/2/2015	NSVD		3.64	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2016	NSVD		4.45	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/7/2017	NSVD		4.57	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/30/2018	NSVD	0.0	3.54	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/2/2019	NSVD	0.2	5.56	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/26/2020	NSVD	0.6	4.30	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/6/2020	NSVD	2.4	3.80	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/17/2021	NSVD	1.9	3.23	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/29/2021	NSVD	1.10	4.23	ND	ND	NSVD	ND(0.5)	ND(1)	ND(0.5)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	9/30/2021	NSVD	0.5	3.90	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	12/21/2021	NSVD	0.1	4.38	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	3/15/2022	NSVD	1.2	3.61	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	6/17/2022	NSVD	1.1	4.01	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
9/23/2022	NSVD	0.9	4.62	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		
12/27/2022	NSVD	0.5	3.53	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		

**TABLE 1
MONITORING WELL GAUGING DATA AND HISTORICAL GROUNDWATER ANALYTICAL SUMMARY**

Sunoco Duns #0651-9128
355 Telegraph Road
Rising Sun, MD 21911
Facility ID No. 2823

Sample ID	Date	Gauging Data						Analytical Data																
		Top of Casing Elevation	PID (ppm)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Cumene (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2,4 Trimethylbenzene (µg/L)	1,3,5 Trimethylbenzene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	
TF-2	1/6/2010	NSVD		3.11	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(190)	ND(50)	
	6/22/2010	NSVD		5.22	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(95)	ND(50)	
	12/9/2010	NSVD		3.94	ND	ND	NSVD	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	--	--	ND(5)	ND(5)	ND(5)	ND(80)	--	--	ND(94)	ND(50)	
	12/22/2011	NSVD		3.50	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/17/2012	NSVD		4.10	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/30/2013	NSVD		2.59	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/9/2014	NSVD		2.85	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/2/2015	NSVD		3.57	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/2016	NSVD		4.39	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/7/2017	NSVD		4.41	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/30/2018	NSVD	0.0	5.41	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/2/2019	NSVD	0.2	5.27	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/26/2020	NSVD	332	4.24	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/6/2020	NSVD	146.9	3.77	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/17/2021	NSVD	98.4	3.19	ND	ND	NSVD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/29/2021	NSVD	98.5	4.19	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	9/30/2021	NSVD	3.3	3.83	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	12/21/2021	NSVD	0.8	4.31	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
	3/15/2022	NSVD	1.8	3.43	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)	
6/17/2022	NSVD	1.1	3.96	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		
9/23/2022	NSVD	0.9	4.58	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		
12/27/2022	NSVD	0.4	3.47	ND	ND	NSVD	ND(1)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	NA	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(100)	ND(100)		
MDE Groundwater Cleanup Standards Type I and II Aquifers (µg/L)								5	1,000	700	10,000	NE	20	0.17	45	NE	NE	NE	NE	5.6	6.0	47	47	

Notes:

µg/L - micrograms per liter (parts per billion)

BRL - Below laboratory reporting limits

BTEX - Benzene, toluene, ethylbenzene, and total xylenes

DIPE - Di-Isopropyl Ether

ETBE - Ethyl Tertiary Butyl Ether

GW - Groundwater

MTBE - Methyl Tert Butyl Ether

NA - Not analyzed

MDE Generic Numeric Cleanup Standards from Table 1 of report titled *State of Maryland Department of the Environment Cleanup Standards for Soil and Groundwater* dated October 2018 (Interim Final Guidance Update No. 3).

ND - Not detected

ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.

NM - Not monitored

NS - Not sampled

NSVD - Not surveyed to vertical datum

TAME - Tertiary Amyl Methyl Ether

TBA - Tertiary Butyl Alcohol

TABLE 2

HISTORICAL POTABLE WELL ANALYTICAL SUMMARY

Sunoco Duns #0651-9128
355 Telegraph Road
Rising Sun, MD 21911
Facility ID No. 2823

Sample ID	Date	Gauging Data					Analytical Data									
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	*MTBE (µg/L)	*TBA (µg/L)	*DIPE (µg/L)	*ETBE (µg/L)	*TAME (µg/L)
PW-1	7/7/2005	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.50)	ND(1)	BRL	ND(0.5)	NA	NA	NA	NA
	12/14/2005	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.50)	ND(0.5)	BRL	ND(0.5)	NA	NA	NA	NA
	4/20/2006	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.50)	ND(0.5)	BRL	ND(0.5)	NA	NA	NA	NA
	12/28/2006	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2007	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	NA	NA	NA	NA
	1/23/2008	NM	NM	NM	NM	NM	ND(5)	ND(5)	ND(5)	ND(5)	BRL	ND(5)	ND(80)	ND(5)	ND(5)	ND(5)
	6/9/2008	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/7/2008	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	6/1/2009	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	1/6/2010	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	6/22/2010	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/9/2010	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(26)	ND(0.5)	ND(0.5)	ND(0.5)
	12/22/2011	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/17/2012	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/30/2013	NM	NM	NM	NM	NM	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	BRL	ND(0.1)	ND(5)	ND(0.1)	ND(0.1)	ND(0.1)
	12/9/2014	NM	NM	NM	NM	NM	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	BRL	ND(0.1)	ND(5)	ND(0.1)	ND(0.1)	ND(0.1)
	12/2/2015	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(1)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/14/2016	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(1)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	12/7/2017	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(1)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	10/30/2018	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(25)	ND(0.5)	ND(0.5)	ND(0.5)
	10/2/2019	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	NA	NA	NA	NA
	8/26/2020	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	NA	NA	NA	NA
	11/6/2020	NM	NM	NM	NM	NM	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
	2/17/2021	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(5)	ND(1)	ND(1)	ND(1)
	6/29/2021	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(5)	ND(1)	ND(1)	ND(1)
	9/30/2021	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(3)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)
	12/21/2021	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(3)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)
	3/15/2022	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(1)	ND(0.5)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)
6/17/2022	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(1)	ND(0.5)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	
9/23/2022	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(1)	ND(3)	BRL	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	
12/27/2022	NM	NM	NM	NM	NM	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	BRL	ND(0.5)	ND(5)	ND(1)	ND(1)	ND(1)	

Notes:

µg/L - micrograms per liter (µg/L)

BRL - Below laboratory reporting limits

BTEX - Benzene, toluene, ethylbenzene, and total xylenes

GW - Groundwater

J - Indicates an estimated value

NA - Not analyzed

ND - Not detected

ND(5.0) - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.

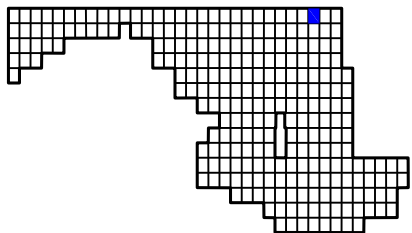
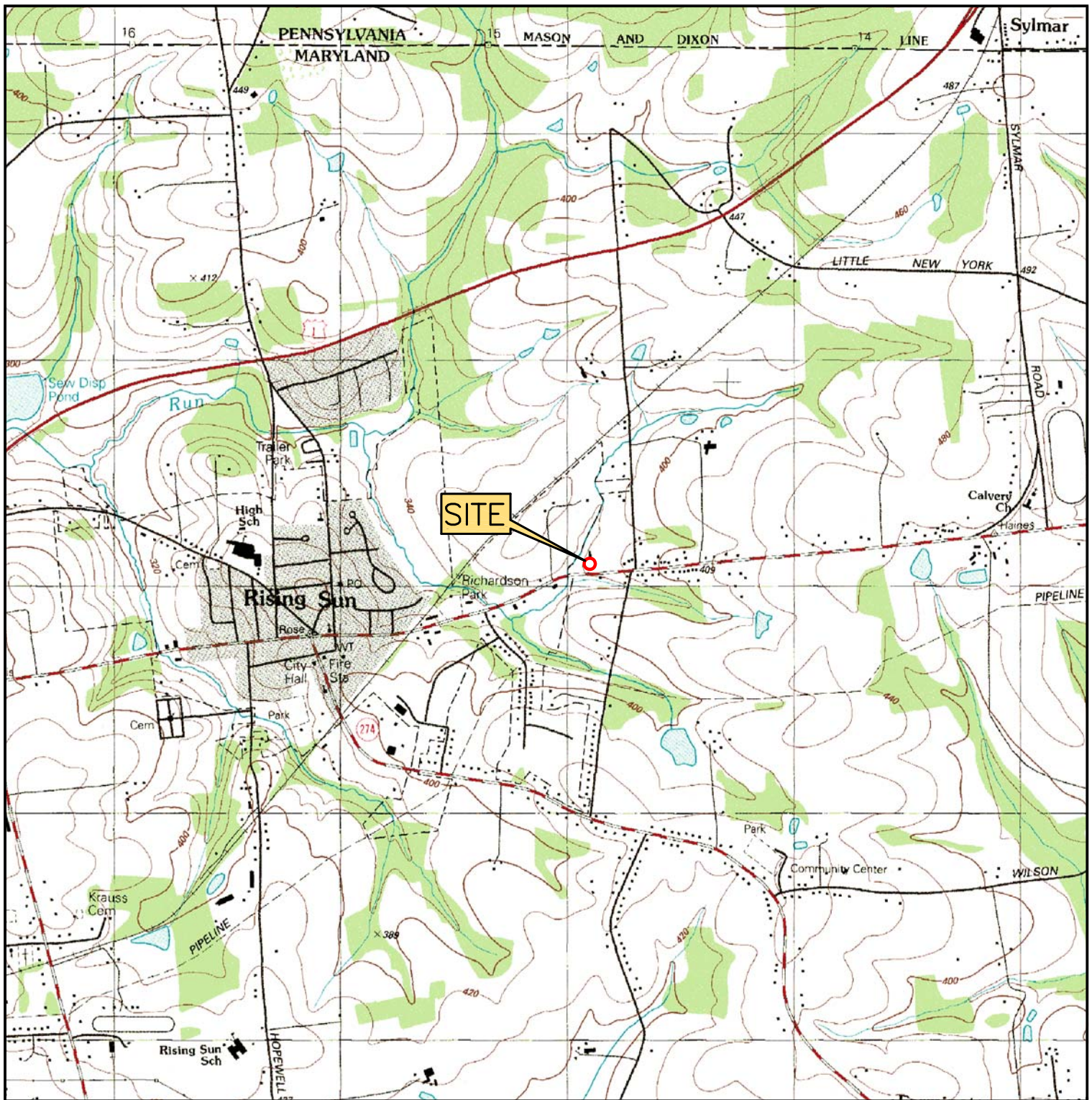
NM - Not monitored

NS - Not sampled

NSVD - Not surveyed to vertical datum

* Samples analyzed by Method 8260 beginning November 6, 2020.

FIGURES



TOPOGRAPHIC QUADRANGLE:
RISING SUN, MARYLAND

APPROX. ELEVATION: 360 FT.



FIGURE # 1	SUNOCO STATION #0651-9128 355 TELEGRAPH ROAD RISING SUN, MARYLAND	SITE LOCATION MAP		 155 RIVERBEND DRIVE, SUITE A, CHARLOTTESVILLE, VA 22911 PHONE: (434)202-7808
		DRAWN BY: B.S.	REVISION DATE: 9/28/2020	

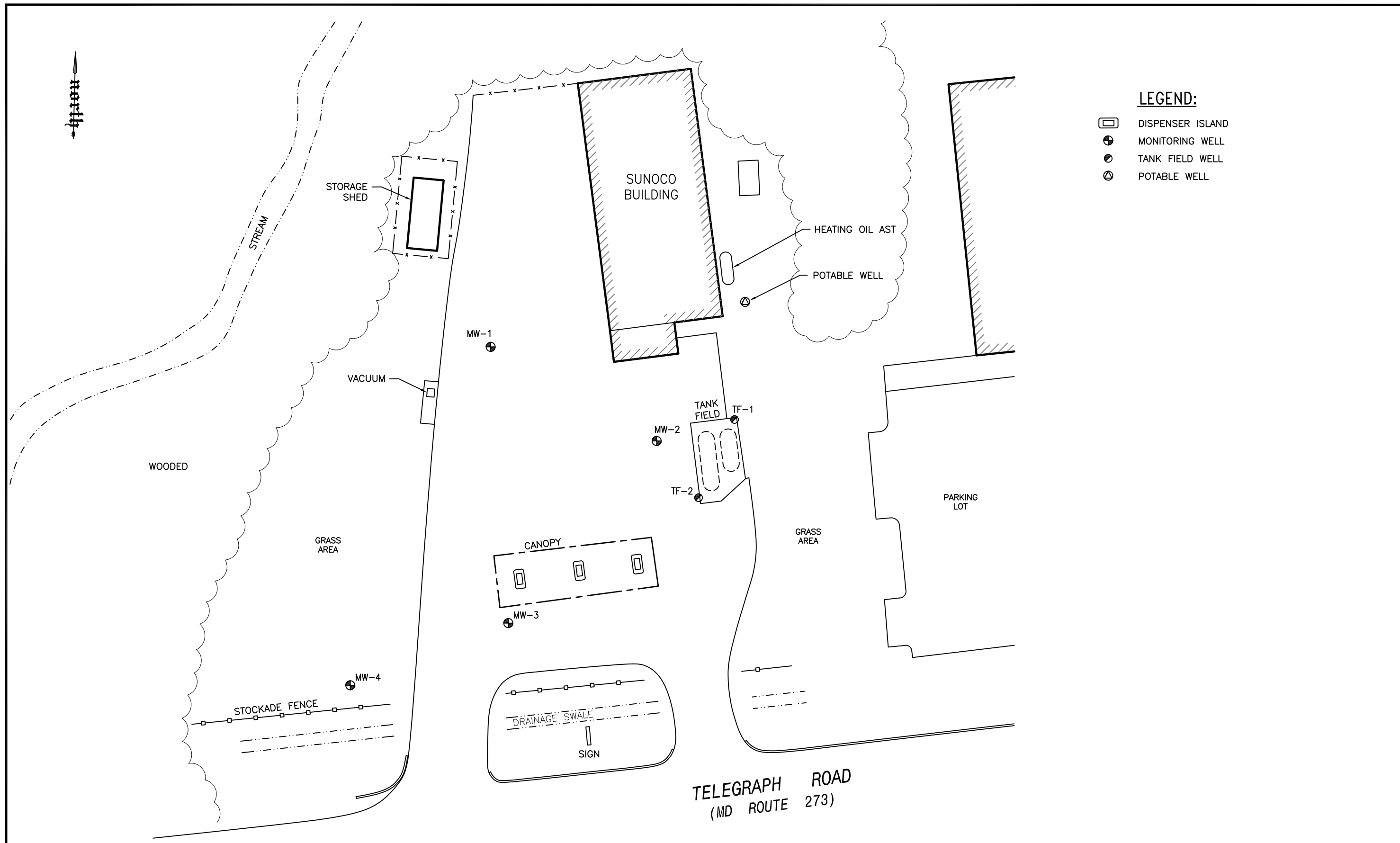
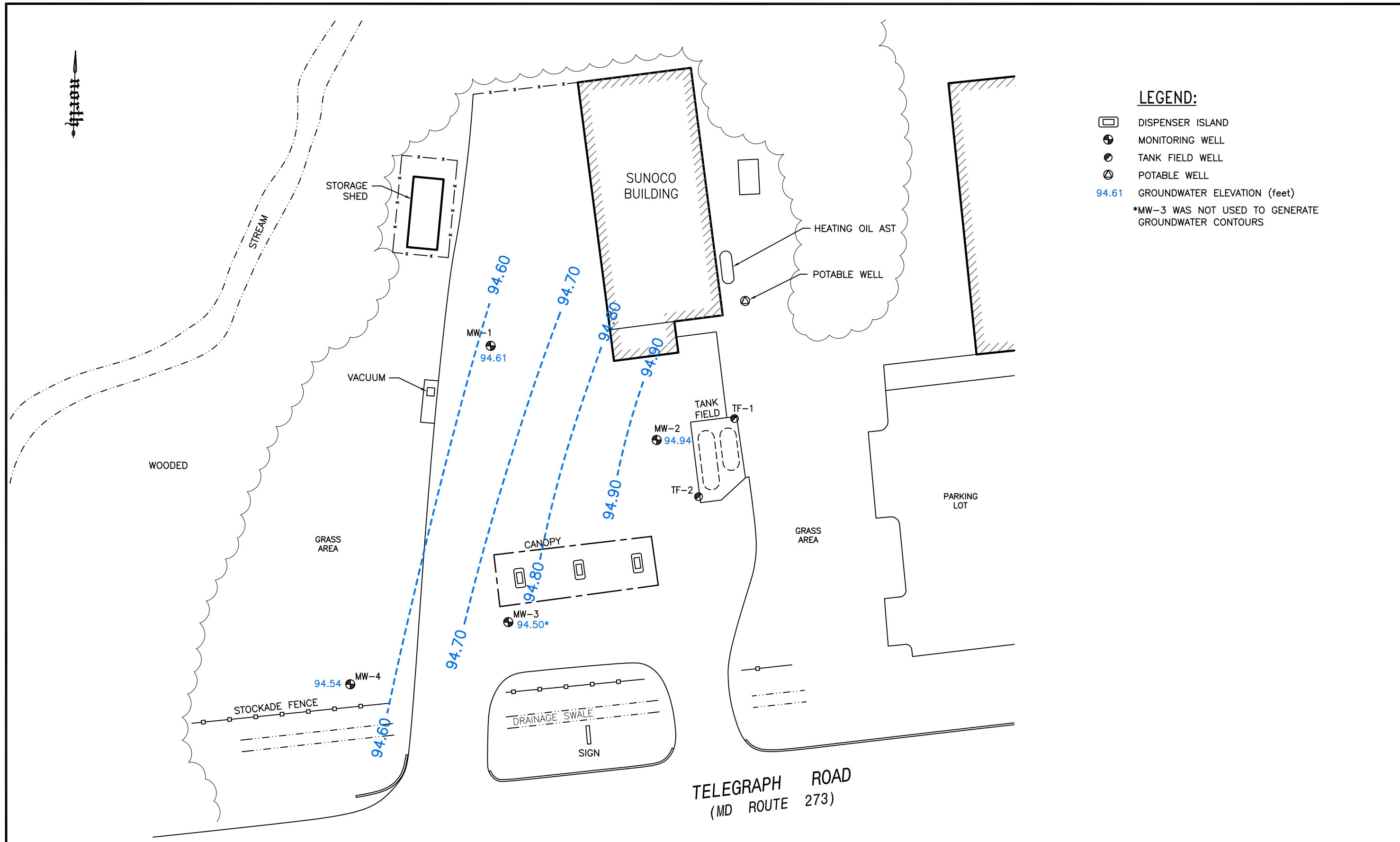


FIGURE # 2	SUNOCO STATION #0651-9128 355 TELEGRAPH ROAD RISING SUN, MARYLAND	SITE PLAN		0 40 SCALE IN FEET	 ENVIRONMENTAL SERVICES 155 RIVERBEND DRIVE, SUITE A, CHARLOTTESVILLE, VA 22911 PHONE: (434)202-7808
		DRAWN BY: B.S.	REVISION DATE: 7/28/2021		



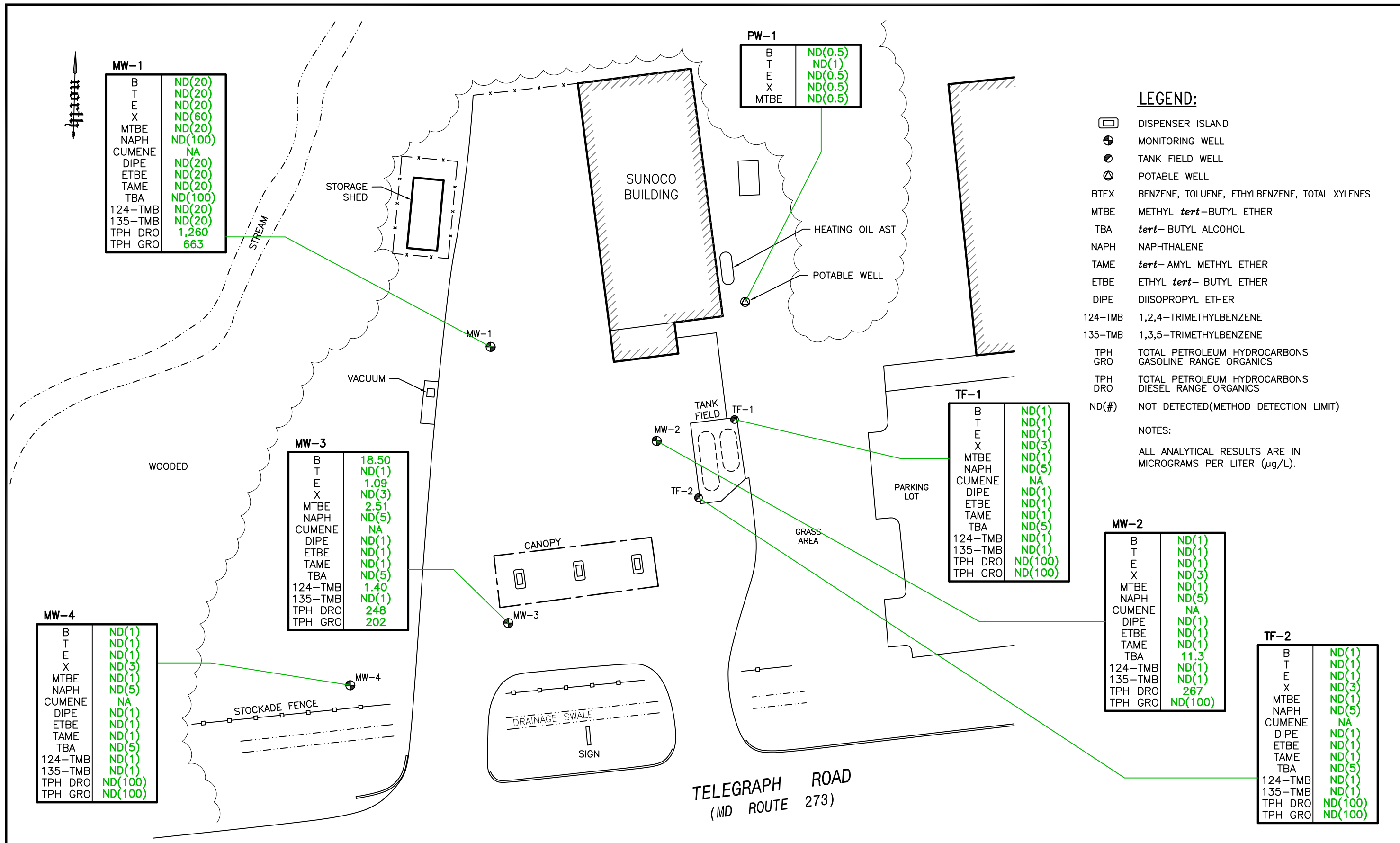
LEGEND:

- DISPENSER ISLAND
- MONITORING WELL
- TANK FIELD WELL
- POTABLE WELL

94.61 GROUNDWATER ELEVATION (feet)

*MW-3 WAS NOT USED TO GENERATE GROUNDWATER CONTOURS

FIGURE # 3	SUNOCO STATION #0651-9128 355 TELEGRAPH ROAD RISING SUN, MARYLAND	POTENTIOMETRIC SURFACE MAP DECEMBER 27, 2022		<p>SCALE IN FEET</p>	<p>ENVIRONMENTAL SERVICES 155 RIVERBEND DRIVE, SUITE A, CHARLOTTESVILLE, VA 22911 PHONE: (434)202-7808</p>
		DRAWN BY: B.S.	REVISION DATE: 1/12/2023		



APPENDIX A
LABORATORY ANALYTICAL
REPORT

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EnviroTrac Ltd. - Sunoco

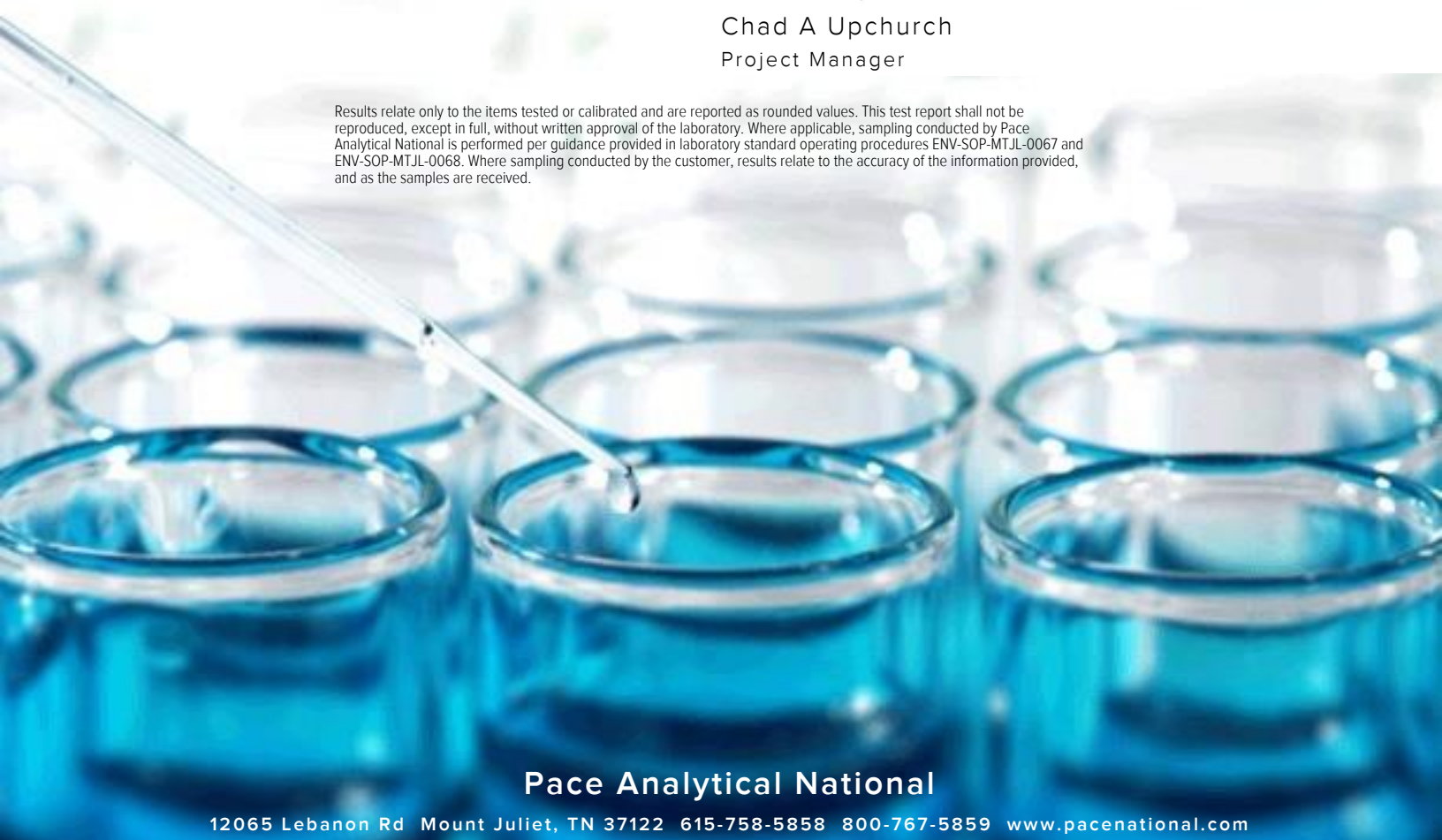
Sample Delivery Group: L1571496
Samples Received: 12/29/2022
Project Number: SUN9128
Description: Quarterly Sampling
Site: Rising Sun Duns# 0651-9128
Report To: Eric Shertzer
155 Riverbend Drive Suite A
Charlottesville, VA 22911

Entire Report Reviewed By:



Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

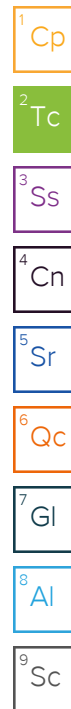


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

PW-1 L1571496-01 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 17:00
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 524.2	WG1982368	1	01/03/23 22:24	01/03/23 22:24	DWR	Mt. Juliet, TN

PW-1 L1571496-02 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 17:00
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 04:31	01/05/23 04:31	DWR	Mt. Juliet, TN

MW-1 L1571496-03 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 13:30
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/03/23 23:48	01/03/23 23:48	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	20	01/05/23 07:19	01/05/23 07:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 12:38	DMG	Mt. Juliet, TN

MW-2 L1571496-04 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 14:00
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/04/23 00:10	01/04/23 00:10	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 04:52	01/05/23 04:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 10:57	DMG	Mt. Juliet, TN

MW-3 L1571496-05 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 15:30
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/04/23 00:32	01/04/23 00:32	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 05:13	01/05/23 05:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 11:17	DMG	Mt. Juliet, TN

MW-4 L1571496-06 GW

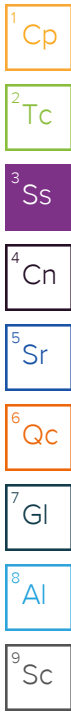
Collected by: D. Shertzer
 Collected date/time: 12/27/22 16:00
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/04/23 00:54	01/04/23 00:54	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 05:34	01/05/23 05:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 11:37	DMG	Mt. Juliet, TN

TF-1 L1571496-07 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 15:00
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/04/23 01:16	01/04/23 01:16	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 05:55	01/05/23 05:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 11:58	DMG	Mt. Juliet, TN



SAMPLE SUMMARY

TF-2 L1571496-08 GW

Collected by: D. Shertzer
 Collected date/time: 12/27/22 14:30
 Received date/time: 12/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1982575	1	01/04/23 01:38	01/04/23 01:38	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1983186	1	01/05/23 06:16	01/05/23 06:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1981438	1	12/31/22 10:47	01/03/23 12:18	DMG	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.500	1	01/03/2023 22:24	WG1982368
Carbon tetrachloride	ND		0.500	1	01/03/2023 22:24	WG1982368
1,4-Dichlorobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,2-Dichloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1-Dichloroethene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1,1-Trichloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Trichloroethene	ND		0.500	1	01/03/2023 22:24	WG1982368
Vinyl chloride	ND		0.500	1	01/03/2023 22:24	WG1982368
1,2,4-Trichlorobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
cis-1,2-Dichloroethene	ND		0.500	1	01/03/2023 22:24	WG1982368
Xylenes, Total	ND		0.500	1	01/03/2023 22:24	WG1982368
Methylene chloride	ND		0.500	1	01/03/2023 22:24	WG1982368
1,2-Dichlorobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
trans-1,2-Dichloroethene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,2-Dichloropropane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1,2-Trichloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Tetrachloroethene	ND		0.500	1	01/03/2023 22:24	WG1982368
Chlorobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
Toluene	ND		1.00	1	01/03/2023 22:24	WG1982368
Ethylbenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
Styrene	ND		0.500	1	01/03/2023 22:24	WG1982368
Bromobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
Bromodichloromethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Bromoform	ND		0.500	1	01/03/2023 22:24	WG1982368
Bromomethane	ND		1.00	1	01/03/2023 22:24	WG1982368
Chlorodibromomethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Chloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Chloroform	ND		0.500	1	01/03/2023 22:24	WG1982368
Chloromethane	ND		0.500	1	01/03/2023 22:24	WG1982368
2-Chlorotoluene	ND		0.500	1	01/03/2023 22:24	WG1982368
4-Chlorotoluene	ND		0.500	1	01/03/2023 22:24	WG1982368
Dibromomethane	ND		0.500	1	01/03/2023 22:24	WG1982368
Methyl tert-butyl ether	ND		0.500	1	01/03/2023 22:24	WG1982368
1,3-Dichlorobenzene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1-Dichloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,3-Dichloropropane	ND		0.500	1	01/03/2023 22:24	WG1982368
2,2-Dichloropropane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1-Dichloropropene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,3-Dichloropropene	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1,1,2-Tetrachloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,1,2,2-Tetrachloroethane	ND		0.500	1	01/03/2023 22:24	WG1982368
1,2,3-Trichloropropane	ND		0.500	1	01/03/2023 22:24	WG1982368
(S) 4-Bromofluorobenzene	94.6		70.0-130		01/03/2023 22:24	WG1982368
(S) 1,2-Dichlorobenzene-d4	86.8		70.0-130		01/03/2023 22:24	WG1982368

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 04:31	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 04:31	WG1983186
Benzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Bromoform	ND		1.00	1	01/05/2023 04:31	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 04:31	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
sec-Butylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 04:31	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 04:31	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 04:31	WG1983186
Chloroform	ND		5.00	1	01/05/2023 04:31	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 04:31	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 04:31	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 04:31	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 04:31	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 04:31	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 04:31	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 04:31	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 04:31	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 04:31	WG1983186
Ethylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 04:31	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 04:31	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 04:31	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 04:31	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 04:31	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 04:31	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 04:31	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Styrene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 04:31	WG1983186
Toluene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 04:31	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 04:31	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 04:31	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 04:31	WG1983186
1,2,4-Trimethylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 04:31	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 04:31	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 04:31	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 04:31	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 04:31	WG1983186
Ethanol	ND		100	1	01/05/2023 04:31	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 04:31	WG1983186
Methyl tert-butyl ether	ND		1.00	1	01/05/2023 04:31	WG1983186
tert-Butyl alcohol	ND		5.00	1	01/05/2023 04:31	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 04:31	WG1983186
(S) Toluene-d8	108		80.0-120		01/05/2023 04:31	WG1983186
(S) 4-Bromofluorobenzene	106		77.0-126		01/05/2023 04:31	WG1983186
(S) 1,2-Dichloroethane-d4	101		70.0-130		01/05/2023 04:31	WG1983186

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	663		100	1	01/03/2023 23:48	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	102		78.0-120		01/03/2023 23:48	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		1000	20	01/05/2023 07:19	WG1983186
Acrylonitrile	ND		200	20	01/05/2023 07:19	WG1983186
Benzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Bromobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Bromochloromethane	ND		20.0	20	01/05/2023 07:19	WG1983186
Bromodichloromethane	ND		20.0	20	01/05/2023 07:19	WG1983186
Bromoform	ND		20.0	20	01/05/2023 07:19	WG1983186
Bromomethane	ND		100	20	01/05/2023 07:19	WG1983186
n-Butylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
sec-Butylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
tert-Butylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Carbon tetrachloride	ND		20.0	20	01/05/2023 07:19	WG1983186
Carbon disulfide	ND		20.0	20	01/05/2023 07:19	WG1983186
Chlorobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Chlorodibromomethane	ND		20.0	20	01/05/2023 07:19	WG1983186
Chloroethane	ND		100	20	01/05/2023 07:19	WG1983186
Chloroform	ND		100	20	01/05/2023 07:19	WG1983186
Chloromethane	ND		50.0	20	01/05/2023 07:19	WG1983186
1,2-Dibromo-3-Chloropropane	ND		100	20	01/05/2023 07:19	WG1983186
1,2-Dibromoethane	ND		20.0	20	01/05/2023 07:19	WG1983186
Dibromomethane	ND		20.0	20	01/05/2023 07:19	WG1983186
1,2-Dichlorobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
1,3-Dichlorobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
1,4-Dichlorobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
trans-1,4-Dichloro-2-butene	ND		50.0	20	01/05/2023 07:19	WG1983186
Dichlorodifluoromethane	ND		100	20	01/05/2023 07:19	WG1983186
1,1-Dichloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186
1,2-Dichloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186
1,1-Dichloroethene	ND		20.0	20	01/05/2023 07:19	WG1983186
cis-1,2-Dichloroethene	ND		20.0	20	01/05/2023 07:19	WG1983186
trans-1,2-Dichloroethene	ND		20.0	20	01/05/2023 07:19	WG1983186
1,2-Dichloropropane	ND		20.0	20	01/05/2023 07:19	WG1983186
cis-1,3-Dichloropropene	ND		20.0	20	01/05/2023 07:19	WG1983186
trans-1,3-Dichloropropene	ND		20.0	20	01/05/2023 07:19	WG1983186
Ethylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Hexachloro-1,3-butadiene	ND		20.0	20	01/05/2023 07:19	WG1983186
2-Hexanone	ND		200	20	01/05/2023 07:19	WG1983186
2-Butanone (MEK)	ND		200	20	01/05/2023 07:19	WG1983186
Iodomethane	ND		200	20	01/05/2023 07:19	WG1983186
Methylene Chloride	ND		100	20	01/05/2023 07:19	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		200	20	01/05/2023 07:19	WG1983186
Naphthalene	ND		100	20	01/05/2023 07:19	WG1983186
n-Propylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186
Styrene	ND		20.0	20	01/05/2023 07:19	WG1983186
1,1,1,2-Tetrachloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186
1,1,2,2-Tetrachloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		20.0	20	01/05/2023 07:19	WG1983186
Tetrachloroethene	ND		20.0	20	01/05/2023 07:19	WG1983186
Toluene	ND		20.0	20	01/05/2023 07:19	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch	
1,2,4-Trichlorobenzene	ND		20.0	20	01/05/2023 07:19	WG1983186	¹ Cp
1,1,1-Trichloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186	² Tc
1,1,2-Trichloroethane	ND		20.0	20	01/05/2023 07:19	WG1983186	
Trichloroethene	ND		20.0	20	01/05/2023 07:19	WG1983186	³ Ss
Trichlorofluoromethane	ND		100	20	01/05/2023 07:19	WG1983186	
1,2,3-Trichloropropane	ND		50.0	20	01/05/2023 07:19	WG1983186	⁴ Cn
1,2,4-Trimethylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186	
1,3,5-Trimethylbenzene	ND		20.0	20	01/05/2023 07:19	WG1983186	
Vinyl acetate	ND		200	20	01/05/2023 07:19	WG1983186	⁵ Sr
Vinyl chloride	ND		20.0	20	01/05/2023 07:19	WG1983186	
Xylenes, Total	ND		60.0	20	01/05/2023 07:19	WG1983186	⁶ Qc
Di-isopropyl ether	ND		20.0	20	01/05/2023 07:19	WG1983186	
Ethanol	ND		2000	20	01/05/2023 07:19	WG1983186	
Ethyl tert-butyl ether	ND		20.0	20	01/05/2023 07:19	WG1983186	⁷ Gl
Methyl tert-butyl ether	ND		20.0	20	01/05/2023 07:19	WG1983186	
tert-Butyl alcohol	ND		100	20	01/05/2023 07:19	WG1983186	⁸ Al
tert-Amyl Methyl Ether	ND		20.0	20	01/05/2023 07:19	WG1983186	
(S) Toluene-d8	108		80.0-120		01/05/2023 07:19	WG1983186	⁹ Sc
(S) 4-Bromofluorobenzene	105		77.0-126		01/05/2023 07:19	WG1983186	
(S) 1,2-Dichloroethane-d4	102		70.0-130		01/05/2023 07:19	WG1983186	

Sample Narrative:

L1571496-03 WG1983186: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1260		100	1	01/03/2023 12:38	WG1981438
(S) o-Terphenyl	94.2		31.0-160		01/03/2023 12:38	WG1981438

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	ND		100	1	01/04/2023 00:10	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	103		78.0-120		01/04/2023 00:10	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 04:52	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 04:52	WG1983186
Benzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Bromoform	ND		1.00	1	01/05/2023 04:52	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 04:52	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
sec-Butylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 04:52	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 04:52	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 04:52	WG1983186
Chloroform	ND		5.00	1	01/05/2023 04:52	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 04:52	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 04:52	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 04:52	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 04:52	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 04:52	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 04:52	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 04:52	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 04:52	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 04:52	WG1983186
Ethylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 04:52	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 04:52	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 04:52	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 04:52	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 04:52	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 04:52	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 04:52	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Styrene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 04:52	WG1983186
Toluene	ND		1.00	1	01/05/2023 04:52	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 04:52	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 04:52	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 04:52	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 04:52	WG1983186
1,2,4-Trimethylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 04:52	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 04:52	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 04:52	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 04:52	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 04:52	WG1983186
Ethanol	ND		100	1	01/05/2023 04:52	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 04:52	WG1983186
Methyl tert-butyl ether	ND		1.00	1	01/05/2023 04:52	WG1983186
tert-Butyl alcohol	11.3		5.00	1	01/05/2023 04:52	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 04:52	WG1983186
(S) Toluene-d8	106		80.0-120		01/05/2023 04:52	WG1983186
(S) 4-Bromofluorobenzene	102		77.0-126		01/05/2023 04:52	WG1983186
(S) 1,2-Dichloroethane-d4	104		70.0-130		01/05/2023 04:52	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

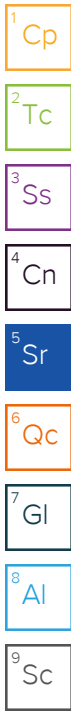
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	267		100	1	01/03/2023 10:57	WG1981438
(S) o-Terphenyl	95.8		31.0-160		01/03/2023 10:57	WG1981438

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	202		100	1	01/04/2023 00:32	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	104		78.0-120		01/04/2023 00:32	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 05:13	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 05:13	WG1983186
Benzene	18.5		1.00	1	01/05/2023 05:13	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Bromoform	ND		1.00	1	01/05/2023 05:13	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 05:13	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
sec-Butylbenzene	1.03		1.00	1	01/05/2023 05:13	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 05:13	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 05:13	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 05:13	WG1983186
Chloroform	ND		5.00	1	01/05/2023 05:13	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 05:13	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 05:13	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 05:13	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 05:13	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 05:13	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:13	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:13	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 05:13	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:13	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:13	WG1983186
Ethylbenzene	1.09		1.00	1	01/05/2023 05:13	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 05:13	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 05:13	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 05:13	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 05:13	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 05:13	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 05:13	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 05:13	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
Styrene	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 05:13	WG1983186
Toluene	ND		1.00	1	01/05/2023 05:13	WG1983186



Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 05:13	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 05:13	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 05:13	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 05:13	WG1983186
1,2,4-Trimethylbenzene	1.40		1.00	1	01/05/2023 05:13	WG1983186
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 05:13	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 05:13	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 05:13	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 05:13	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 05:13	WG1983186
Ethanol	ND		100	1	01/05/2023 05:13	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 05:13	WG1983186
Methyl tert-butyl ether	2.51		1.00	1	01/05/2023 05:13	WG1983186
tert-Butyl alcohol	ND		5.00	1	01/05/2023 05:13	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 05:13	WG1983186
(S) Toluene-d8	107		80.0-120		01/05/2023 05:13	WG1983186
(S) 4-Bromofluorobenzene	103		77.0-126		01/05/2023 05:13	WG1983186
(S) 1,2-Dichloroethane-d4	105		70.0-130		01/05/2023 05:13	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	248		100	1	01/03/2023 11:17	WG1981438
(S) o-Terphenyl	79.5		31.0-160		01/03/2023 11:17	WG1981438

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	ND		100	1	01/04/2023 00:54	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	107		78.0-120		01/04/2023 00:54	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 05:34	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 05:34	WG1983186
Benzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Bromoform	ND		1.00	1	01/05/2023 05:34	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 05:34	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
sec-Butylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 05:34	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 05:34	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 05:34	WG1983186
Chloroform	ND		5.00	1	01/05/2023 05:34	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 05:34	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 05:34	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 05:34	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 05:34	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 05:34	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:34	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 05:34	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:34	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:34	WG1983186
Ethylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 05:34	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 05:34	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 05:34	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 05:34	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 05:34	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 05:34	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 05:34	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Styrene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 05:34	WG1983186
Toluene	ND		1.00	1	01/05/2023 05:34	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 05:34	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 05:34	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 05:34	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 05:34	WG1983186
1,2,4-Trimethylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 05:34	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 05:34	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 05:34	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 05:34	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 05:34	WG1983186
Ethanol	ND		100	1	01/05/2023 05:34	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 05:34	WG1983186
Methyl tert-butyl ether	ND		1.00	1	01/05/2023 05:34	WG1983186
tert-Butyl alcohol	ND		5.00	1	01/05/2023 05:34	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 05:34	WG1983186
(S) Toluene-d8	109		80.0-120		01/05/2023 05:34	WG1983186
(S) 4-Bromofluorobenzene	105		77.0-126		01/05/2023 05:34	WG1983186
(S) 1,2-Dichloroethane-d4	102		70.0-130		01/05/2023 05:34	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	01/03/2023 11:37	WG1981438
(S) o-Terphenyl	84.2		31.0-160		01/03/2023 11:37	WG1981438

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	ND		100	1	01/04/2023 01:16	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	102		78.0-120		01/04/2023 01:16	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 05:55	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 05:55	WG1983186
Benzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Bromoform	ND		1.00	1	01/05/2023 05:55	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 05:55	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
sec-Butylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 05:55	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 05:55	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 05:55	WG1983186
Chloroform	ND		5.00	1	01/05/2023 05:55	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 05:55	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 05:55	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 05:55	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 05:55	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 05:55	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:55	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 05:55	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:55	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 05:55	WG1983186
Ethylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 05:55	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 05:55	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 05:55	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 05:55	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 05:55	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 05:55	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 05:55	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Styrene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 05:55	WG1983186
Toluene	ND		1.00	1	01/05/2023 05:55	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 05:55	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 05:55	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 05:55	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 05:55	WG1983186
1,2,4-Trimethylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 05:55	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 05:55	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 05:55	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 05:55	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 05:55	WG1983186
Ethanol	ND		100	1	01/05/2023 05:55	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 05:55	WG1983186
Methyl tert-butyl ether	ND		1.00	1	01/05/2023 05:55	WG1983186
tert-Butyl alcohol	ND		5.00	1	01/05/2023 05:55	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 05:55	WG1983186
(S) Toluene-d8	109		80.0-120		01/05/2023 05:55	WG1983186
(S) 4-Bromofluorobenzene	107		77.0-126		01/05/2023 05:55	WG1983186
(S) 1,2-Dichloroethane-d4	105		70.0-130		01/05/2023 05:55	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	01/03/2023 11:58	WG1981438
(S) o-Terphenyl	83.2		31.0-160		01/03/2023 11:58	WG1981438

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) Low Fraction	ND		100	1	01/04/2023 01:38	WG1982575
(S) a, a, a-Trifluorotoluene(FID)	104		78.0-120		01/04/2023 01:38	WG1982575

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	01/05/2023 06:16	WG1983186
Acrylonitrile	ND		10.0	1	01/05/2023 06:16	WG1983186
Benzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Bromobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Bromochloromethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Bromodichloromethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Bromoform	ND		1.00	1	01/05/2023 06:16	WG1983186
Bromomethane	ND		5.00	1	01/05/2023 06:16	WG1983186
n-Butylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
sec-Butylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
tert-Butylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Carbon tetrachloride	ND		1.00	1	01/05/2023 06:16	WG1983186
Carbon disulfide	ND		1.00	1	01/05/2023 06:16	WG1983186
Chlorobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Chlorodibromomethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Chloroethane	ND		5.00	1	01/05/2023 06:16	WG1983186
Chloroform	ND		5.00	1	01/05/2023 06:16	WG1983186
Chloromethane	ND		2.50	1	01/05/2023 06:16	WG1983186
1,2-Dibromo-3-Chloropropane	ND		5.00	1	01/05/2023 06:16	WG1983186
1,2-Dibromoethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Dibromomethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,2-Dichlorobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,3-Dichlorobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,4-Dichlorobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
trans-1,4-Dichloro-2-butene	ND		2.50	1	01/05/2023 06:16	WG1983186
Dichlorodifluoromethane	ND		5.00	1	01/05/2023 06:16	WG1983186
1,1-Dichloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,2-Dichloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1-Dichloroethene	ND		1.00	1	01/05/2023 06:16	WG1983186
cis-1,2-Dichloroethene	ND		1.00	1	01/05/2023 06:16	WG1983186
trans-1,2-Dichloroethene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,2-Dichloropropane	ND		1.00	1	01/05/2023 06:16	WG1983186
cis-1,3-Dichloropropene	ND		1.00	1	01/05/2023 06:16	WG1983186
trans-1,3-Dichloropropene	ND		1.00	1	01/05/2023 06:16	WG1983186
Ethylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Hexachloro-1,3-butadiene	ND		1.00	1	01/05/2023 06:16	WG1983186
2-Hexanone	ND		10.0	1	01/05/2023 06:16	WG1983186
2-Butanone (MEK)	ND		10.0	1	01/05/2023 06:16	WG1983186
Iodomethane	ND		10.0	1	01/05/2023 06:16	WG1983186
Methylene Chloride	ND		5.00	1	01/05/2023 06:16	WG1983186
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	01/05/2023 06:16	WG1983186
Naphthalene	ND		5.00	1	01/05/2023 06:16	WG1983186
n-Propylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Styrene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1,2,2-Tetrachloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Tetrachloroethene	ND		1.00	1	01/05/2023 06:16	WG1983186
Toluene	ND		1.00	1	01/05/2023 06:16	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 524.2/8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,2,4-Trichlorobenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1,1-Trichloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
1,1,2-Trichloroethane	ND		1.00	1	01/05/2023 06:16	WG1983186
Trichloroethene	ND		1.00	1	01/05/2023 06:16	WG1983186
Trichlorofluoromethane	ND		5.00	1	01/05/2023 06:16	WG1983186
1,2,3-Trichloropropane	ND		2.50	1	01/05/2023 06:16	WG1983186
1,2,4-Trimethylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
1,3,5-Trimethylbenzene	ND		1.00	1	01/05/2023 06:16	WG1983186
Vinyl acetate	ND		10.0	1	01/05/2023 06:16	WG1983186
Vinyl chloride	ND		1.00	1	01/05/2023 06:16	WG1983186
Xylenes, Total	ND		3.00	1	01/05/2023 06:16	WG1983186
Di-isopropyl ether	ND		1.00	1	01/05/2023 06:16	WG1983186
Ethanol	ND		100	1	01/05/2023 06:16	WG1983186
Ethyl tert-butyl ether	ND		1.00	1	01/05/2023 06:16	WG1983186
Methyl tert-butyl ether	ND		1.00	1	01/05/2023 06:16	WG1983186
tert-Butyl alcohol	ND		5.00	1	01/05/2023 06:16	WG1983186
tert-Amyl Methyl Ether	ND		1.00	1	01/05/2023 06:16	WG1983186
(S) Toluene-d8	110		80.0-120		01/05/2023 06:16	WG1983186
(S) 4-Bromofluorobenzene	105		77.0-126		01/05/2023 06:16	WG1983186
(S) 1,2-Dichloroethane-d4	105		70.0-130		01/05/2023 06:16	WG1983186

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
TPH (GC/FID) High Fraction	ND		100	1	01/03/2023 12:18	WG1981438
(S) o-Terphenyl	90.5		31.0-160		01/03/2023 12:18	WG1981438

Method Blank (MB)

(MB) R3877905-2 01/03/23 11:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPH (GC/FID) Low Fraction	U		31.4	100
^(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3877905-1 01/03/23 10:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5500	5880	107	72.0-127	
^(S) a,a,a-Trifluorotoluene(FID)			97.3	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3878358-2 01/03/23 13:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0490	0.500
Carbon tetrachloride	U		0.0660	0.500
1,4-Dichlorobenzene	U		0.0310	0.500
1,2-Dichloroethane	U		0.0498	0.500
1,1-Dichloroethene	U		0.0540	0.500
1,1,1-Trichloroethane	U		0.0490	0.500
Trichloroethene	U		0.0440	0.500
Vinyl chloride	U		0.0260	0.500
1,2,4-Trichlorobenzene	U		0.0530	0.500
cis-1,2-Dichloroethene	U		0.0640	0.500
Xylenes, Total	U		0.167	0.500
Methylene chloride	U		0.0608	0.500
1,2-Dichlorobenzene	U		0.0410	0.500
trans-1,2-Dichloroethene	U		0.100	0.500
1,2-Dichloropropane	U		0.0270	0.500
1,1,2-Trichloroethane	U		0.0701	0.500
Tetrachloroethene	U		0.0790	0.500
Chlorobenzene	U		0.0370	0.500
Toluene	U		0.412	1.00
Ethylbenzene	U		0.0440	0.500
Styrene	U		0.0360	0.500
Bromobenzene	U		0.0490	0.500
Bromodichloromethane	U		0.0810	0.500
Bromoform	U		0.0800	0.500
Bromomethane	U		0.0790	1.00
Chlorodibromomethane	U		0.0930	0.500
Chloroethane	U		0.190	0.500
Chloroform	U		0.0800	0.500
Chloromethane	U		0.0290	0.500
2-Chlorotoluene	U		0.0480	0.500
4-Chlorotoluene	U		0.0550	0.500
Dibromomethane	U		0.0700	0.500
Methyl tert-butyl ether	U		0.0530	0.500
1,3-Dichlorobenzene	U		0.0360	0.500
1,1-Dichloroethane	U		0.0240	0.500
1,3-Dichloropropane	U		0.0230	0.500
2,2-Dichloropropane	U		0.0680	0.500
1,1-Dichloropropene	U		0.0450	0.500
1,3-Dichloropropene	U		0.320	0.500
1,1,1,2-Tetrachloroethane	U		0.0700	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3878358-2 01/03/23 13:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2,2-Tetrachloroethane	U		0.0790	0.500
1,2,3-Trichloropropane	U		0.0720	0.500
(S) 4-Bromofluorobenzene	97.8			70.0-130
(S) 1,2-Dichlorobenzene-d4	84.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3878358-1 01/03/23 13:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.17	103	70.0-130	
Carbon tetrachloride	5.00	5.03	101	70.0-130	
1,4-Dichlorobenzene	5.00	4.84	96.8	70.0-130	
1,2-Dichloroethane	5.00	5.06	101	70.0-130	
1,1-Dichloroethene	5.00	4.84	96.8	70.0-130	
1,1,1-Trichloroethane	5.00	5.19	104	70.0-130	
Trichloroethene	5.00	5.19	104	70.0-130	
Vinyl chloride	5.00	5.10	102	70.0-130	
1,2,4-Trichlorobenzene	5.00	5.02	100	70.0-130	
cis-1,2-Dichloroethene	5.00	5.00	100	70.0-130	
Xylenes, Total	15.0	15.6	104	70.0-130	
Methylene chloride	5.00	4.88	97.6	70.0-130	
1,2-Dichlorobenzene	5.00	4.88	97.6	70.0-130	
trans-1,2-Dichloroethene	5.00	5.01	100	70.0-130	
1,2-Dichloropropane	5.00	4.97	99.4	70.0-130	
1,1,2-Trichloroethane	5.00	4.83	96.6	70.0-130	
Tetrachloroethene	5.00	5.09	102	70.0-130	
Chlorobenzene	5.00	4.95	99.0	70.0-130	
Toluene	5.00	5.08	102	70.0-130	
Ethylbenzene	5.00	5.17	103	70.0-130	
Styrene	5.00	4.93	98.6	70.0-130	
Bromobenzene	5.00	4.94	98.8	70.0-130	
Bromodichloromethane	5.00	5.02	100	70.0-130	
Bromoform	5.00	4.68	93.6	70.0-130	
Bromomethane	5.00	6.03	121	70.0-130	
Chlorodibromomethane	5.00	4.88	97.6	70.0-130	
Chloroethane	5.00	5.73	115	70.0-130	
Chloroform	5.00	4.98	99.6	70.0-130	
Chloromethane	5.00	4.90	98.0	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3878358-1 01/03/23 13:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Chlorotoluene	5.00	5.02	100	70.0-130	
4-Chlorotoluene	5.00	5.03	101	70.0-130	
Dibromomethane	5.00	4.94	98.8	70.0-130	
Methyl tert-butyl ether	5.00	4.95	99.0	70.0-130	
1,3-Dichlorobenzene	5.00	4.94	98.8	70.0-130	
1,1-Dichloroethane	5.00	4.92	98.4	70.0-130	
1,3-Dichloropropane	5.00	4.94	98.8	70.0-130	
2,2-Dichloropropane	5.00	5.16	103	70.0-130	
1,1-Dichloropropene	5.00	5.18	104	70.0-130	
1,3-Dichloropropene	10.0	10.1	101	70.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.98	99.6	70.0-130	
1,1,2,2-Tetrachloroethane	5.00	4.74	94.8	70.0-130	
1,2,3-Trichloropropane	5.00	4.93	98.6	70.0-130	
(S) 4-Bromofluorobenzene			96.7	70.0-130	
(S) 1,2-Dichlorobenzene-d4			96.9	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3878252-2 01/05/23 00:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Carbon disulfide	U		0.0962	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
trans-1,4-Dichloro-2-butene	U		0.467	2.50
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	10.0
2-Butanone (MEK)	U		1.19	10.0
Iodomethane	U		6.00	10.0
Methylene Chloride	U		0.430	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3878252-2 01/05/23 00:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl acetate	U		0.692	10.0
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
Di-isopropyl ether	U		0.105	1.00
Ethanol	U		42.0	100
Ethyl tert-butyl ether	U		0.101	1.00
Methyl tert-butyl ether	U		0.101	1.00
tert-Butyl alcohol	U		4.06	5.00
tert-Amyl Methyl Ether	U		0.195	1.00
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	104			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3878252-1 01/04/23 23:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	22.3	89.2	19.0-160	
Acrylonitrile	25.0	23.7	94.8	55.0-149	
Benzene	5.00	4.51	90.2	70.0-123	
Bromobenzene	5.00	4.41	88.2	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3878252-1 01/04/23 23:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	5.00	4.79	95.8	76.0-122	
Bromodichloromethane	5.00	4.44	88.8	75.0-120	
Bromoform	5.00	4.73	94.6	68.0-132	
Bromomethane	5.00	4.70	94.0	10.0-160	
n-Butylbenzene	5.00	4.08	81.6	73.0-125	
sec-Butylbenzene	5.00	4.41	88.2	75.0-125	
tert-Butylbenzene	5.00	4.68	93.6	76.0-124	
Carbon tetrachloride	5.00	4.62	92.4	68.0-126	
Carbon disulfide	5.00	3.89	77.8	61.0-128	
Chlorobenzene	5.00	5.06	101	80.0-121	
Chlorodibromomethane	5.00	4.70	94.0	77.0-125	
Chloroethane	5.00	4.53	90.6	47.0-150	
Chloroform	5.00	4.43	88.6	73.0-120	
Chloromethane	5.00	4.82	96.4	41.0-142	
1,2-Dibromo-3-Chloropropane	5.00	3.83	76.6	58.0-134	
1,2-Dibromoethane	5.00	5.11	102	80.0-122	
Dibromomethane	5.00	4.58	91.6	80.0-120	
1,2-Dichlorobenzene	5.00	4.54	90.8	79.0-121	
1,3-Dichlorobenzene	5.00	4.67	93.4	79.0-120	
1,4-Dichlorobenzene	5.00	4.66	93.2	79.0-120	
trans-1,4-Dichloro-2-butene	5.00	3.76	75.2	33.0-144	
Dichlorodifluoromethane	5.00	4.35	87.0	51.0-149	
1,1-Dichloroethane	5.00	4.86	97.2	70.0-126	
1,2-Dichloroethane	5.00	5.13	103	70.0-128	
1,1-Dichloroethene	5.00	4.16	83.2	71.0-124	
cis-1,2-Dichloroethene	5.00	4.39	87.8	73.0-120	
trans-1,2-Dichloroethene	5.00	4.36	87.2	73.0-120	
1,2-Dichloropropane	5.00	5.21	104	77.0-125	
cis-1,3-Dichloropropene	5.00	4.70	94.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.41	88.2	78.0-124	
Ethylbenzene	5.00	4.74	94.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.07	101	54.0-138	
2-Hexanone	25.0	26.8	107	67.0-149	
2-Butanone (MEK)	25.0	24.3	97.2	44.0-160	
Iodomethane	25.0	22.1	88.4	33.0-147	
Methylene Chloride	5.00	4.22	84.4	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	22.8	91.2	68.0-142	
Naphthalene	5.00	3.63	72.6	54.0-135	
n-Propylbenzene	5.00	4.50	90.0	77.0-124	
Styrene	5.00	4.60	92.0	73.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3878252-1 01/04/23 23:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,1,1,2-Tetrachloroethane	5.00	4.64	92.8	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.29	85.8	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	4.89	97.8	69.0-132	
Tetrachloroethene	5.00	5.24	105	72.0-132	
Toluene	5.00	4.70	94.0	79.0-120	
1,2,4-Trichlorobenzene	5.00	4.23	84.6	57.0-137	
1,1,1-Trichloroethane	5.00	4.63	92.6	73.0-124	
1,1,2-Trichloroethane	5.00	4.80	96.0	80.0-120	
Trichloroethene	5.00	5.12	102	78.0-124	
Trichlorofluoromethane	5.00	6.47	129	59.0-147	
1,2,3-Trichloropropane	5.00	5.29	106	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.25	85.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.48	89.6	76.0-122	
Vinyl acetate	25.0	16.1	64.4	11.0-160	
Vinyl chloride	5.00	5.07	101	67.0-131	
Xylenes, Total	15.0	13.9	92.7	79.0-123	
Di-isopropyl ether	5.00	4.00	80.0	58.0-138	
ethanol	250	168	67.2	10.0-160	
Ethyl tert-butyl ether	5.00	4.26	85.2	63.0-138	
Methyl tert-butyl ether	5.00	4.35	87.0	68.0-125	
tert-Butyl alcohol	25.0	23.4	93.6	27.0-160	
tert-Amyl Methyl Ether	5.00	4.03	80.6	66.0-125	
<i>(S) Toluene-d8</i>			104	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			104	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			102	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3877332-1 01/03/23 03:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPH (GC/FID) High Fraction	U		24.7	100
<i>(S) o-Terphenyl</i>	97.5			31.0-160

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3877332-2 01/03/23 03:41 • (LCSD) R3877332-3 01/03/23 04:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1500	1590	1510	106	101	50.0-150			5.16	20
<i>(S) o-Terphenyl</i>				71.5	72.5	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

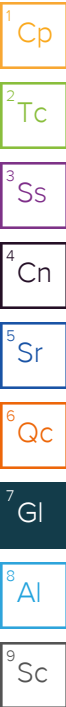
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:

EnviroTrac Ltd. - Sunoco

155 Riverbend Drive Suite A
Charlottesville, VA 22911

Billing Information:

Eric Shertzer
155 Riverbend Drive Suite A
Charlottesville, VA 22911

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Report to:
Eric Shertzer

Email To: erics@envirotrac.com

Project Description:
Quarterly Sampling

City/State
Collected:

Please Circle:
PT MT CI ET

Phone: 434-202-7808

Client Project #
SUN9128

Lab Project #
SUNENVTRAC-SUN9128

Collected by (print):
D. Shertzer

Site/Facility ID #
Rising Sun Duns# 0651-9128

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N Y

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROLVI 40mlAmb-HCl-BT	GRO 40mlAmb HCl	V524GW 40mlAmb-AscAcid+HCl	V82600XY 40mlAmb-HCl
PW-1	Grab	GW		12/27/22	1700	3			X	
PW-1		GW			1700	2			X	
MW-1		GW			1330	7	X	X	X	
MW-2		GW			1400	7	X	X	X	
MW-3		GW			1530	7	X	X	X	
MW-4		GW			1600	7	X	X	X	
TF-1		GW			1500	7	X	X	X	
TF-2		GW			1430	7	X	X	X	
		GW				7	X	X	X	



MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1571496**
C024

Acctnum: **SUNENVTRAC**
Template: **T220781**
Prelogin: **P967185**
PM: **3564 - Chad A Upchurch**
PB: **11-30-2022GM**
Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	- 01
	- 02
	- 03
	- 04
	- 05
	- 06
	- 07
	- 08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking #

0193 3522 8429

Sample Receipt Checklist
 COC Seal Present/Intact: NP N
 COC Signed/Accurate: N
 Bottles arrive intact: N
 Correct bottles used: N
 Sufficient volume sent: N
 If Applicable
 VOA Zero Headspace: N
 Preservation Correct/Checked: N
 RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCl / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **14.2°C** Bottles Received: **47**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **12/29/22** Time: **0900**

Hold:

Condition:
NCF / OK

APPENDIX B
MANN-KENDALL STATISTICAL
ANALYSIS

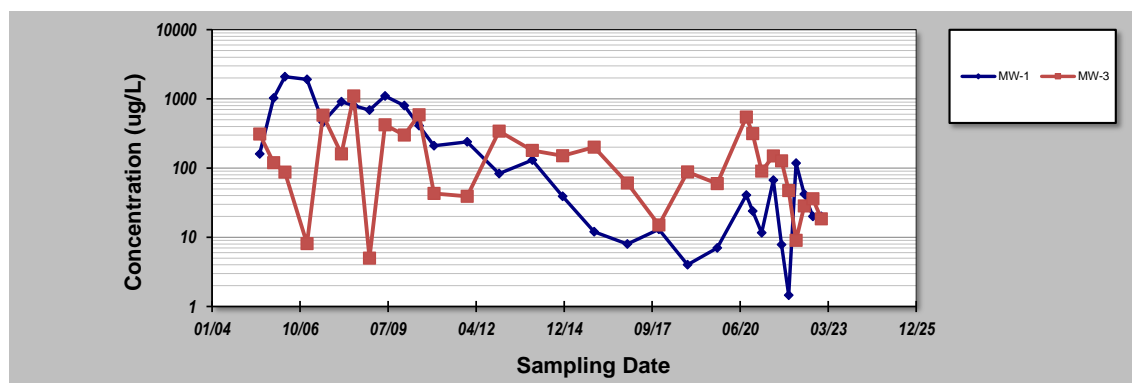
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 11-Jan-23	Job ID: Sunoco Duns #0651-9128
Facility Name: Sunoco Duns #0651-9128 (Rising Sun)	Constituent: Benzene
Conducted By: T. Mills	Concentration Units: ug/L

Sampling Point ID:	MW-1	MW-3	
--------------------	-------------	-------------	--

Sampling Event	Sampling Date	BENZENE CONCENTRATION (ug/L)					
		MW-1	MW-3				
1	7-Jul-05	160	310				
2	14-Dec-05	1030	119				
3	20-Apr-06	2090	87.1				
4	28-Dec-06	1910	8.1				
5	27-Jun-07	460	580				
6	23-Jan-08	910	160				
7	9-Jun-08	800	1100				
8	7-Dec-08	690	5				
9	1-Jun-09	1100	420				
10	6-Jan-10	800	300				
11	22-Jun-10	410	590				
12	9-Dec-10	210	43				
13	22-Dec-11	240	39				
14	17-Dec-12	83	340				
15	30-Dec-13	130	180				
16	9-Dec-14	39	150				
17	2-Dec-15	12	200				
18	14-Dec-16	8	61				
19	7-Dec-17	13	15				
20	30-Oct-18	4	88				
21	2-Oct-19	7	59.4				
22	26-Aug-20	40.6	546				
23	6-Nov-20	23.9	315				
24	17-Feb-21	11.6	90.5				
25	29-Jun-21	67	149				
26	30-Sep-21	7.8	127				
27	21-Dec-21	1.45	47.1				
28	15-Mar-22	118	9.03				
29	17-Jun-22	42	28.4				
30	23-Sep-22	20	36.1				
31	27-Dec-22	20	18.5				
32							
33							
34							
35							

Coefficient of Variation:	1.50	1.20				
Mann-Kendall Statistic (S):	-275	-123				
Confidence Factor:	>99.9%	98.1%				
Concentration Trend:	Decreasing	Decreasing				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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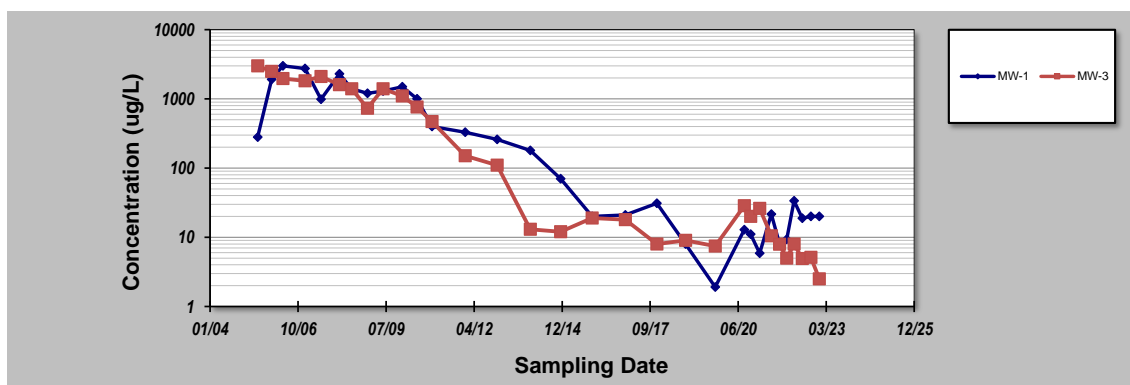
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 11-Jan-23	Job ID: Sunoco Duns #0651-9128
Facility Name: Sunoco Duns #0651-9128 (Rising Sun)	Constituent: MTBE
Conducted By: T. Mills	Concentration Units: ug/L

Sampling Point ID:	MW-1	MW-3	
--------------------	-------------	-------------	--

Sampling Event	Sampling Date	MTBE CONCENTRATION (ug/L)					
		MW-1	MW-3				
1	7-Jul-05	280	3000				
2	14-Dec-05	1910	2500				
3	20-Apr-06	3000	1970				
4	28-Dec-06	2740	1820				
5	27-Jun-07	990	2100				
6	23-Jan-08	2300	1600				
7	9-Jun-08	1400	1400				
8	7-Dec-08	1200	730				
9	1-Jun-09	1300	1400				
10	6-Jan-10	1500	1100				
11	22-Jun-10	1000	760				
12	9-Dec-10	400	470				
13	22-Dec-11	330	150				
14	17-Dec-12	260	110				
15	30-Dec-13	180	13				
16	9-Dec-14	70	12				
17	2-Dec-15	20	19				
18	14-Dec-16	21	18				
19	7-Dec-17	31	8				
20	30-Oct-18	8	9				
21	2-Oct-19	1.91	7.45				
22	26-Aug-20	12.9	28.6				
23	6-Nov-20	11.1	20				
24	17-Feb-21	5.86	26.2				
25	29-Jun-21	21.6	10.5				
26	30-Sep-21	8.04	7.95				
27	21-Dec-21	9.34	5				
28	15-Mar-22	33.6	7.96				
29	17-Jun-22	18.8	4.92				
30	23-Sep-22	20	5.11				
31	27-Dec-22	20	2.51				
32							
33							
34							
35							

Coefficient of Variation:	1.43	1.43				
Mann-Kendall Statistic (S):	-300	-382				
Confidence Factor:	>99.9%	>99.9%				
Concentration Trend:	Decreasing	Decreasing				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

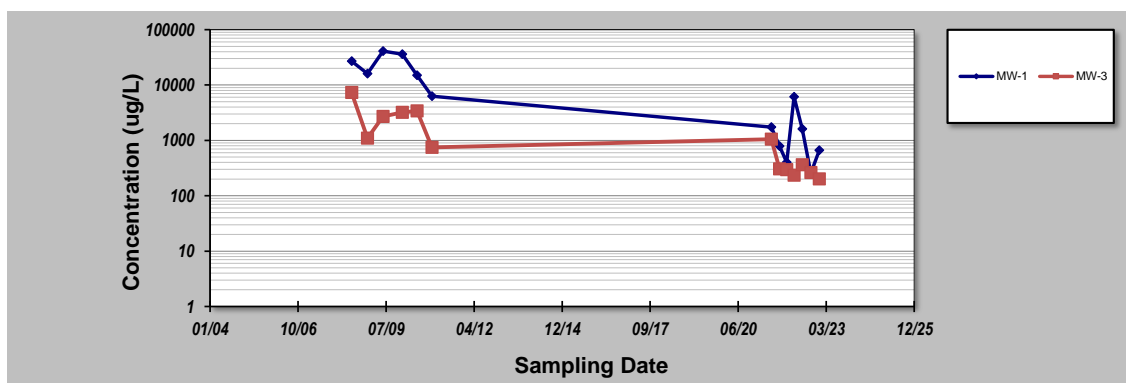
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GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 11-Jan-23	Job ID: Sunoco Duns #0651-9128
Facility Name: Sunoco Duns #0651-9128 (Rising Sun)	Constituent: TPH GRO
Conducted By: T. Mills	Concentration Units: ug/L

Sampling Point ID:		MW-1	MW-3						
Sampling Event	Sampling Date	TPH GRO CONCENTRATION (ug/L)							
1	7-Jul-05								
2	14-Dec-05								
3	20-Apr-06								
4	28-Dec-06								
5	27-Jun-07								
6	23-Jan-08								
7	9-Jun-08	27000	7300						
8	7-Dec-08	16000	1100						
9	1-Jun-09	41000	2700						
10	6-Jan-10	36000	3200						
11	22-Jun-10	15000	3400						
12	9-Dec-10	6300	750						
13	22-Dec-11								
14	17-Dec-12								
15	30-Dec-13								
16	9-Dec-14								
17	2-Dec-15								
18	14-Dec-16								
19	7-Dec-17								
20	30-Oct-18								
21	2-Oct-19								
22	26-Aug-20								
23	6-Nov-20								
24	17-Feb-21								
25	29-Jun-21	1730	1050						
26	30-Sep-21	786	305						
27	21-Dec-21	402	296						
28	15-Mar-22	6150	234						
29	17-Jun-22	1610	361						
30	23-Sep-22	256	262						
31	27-Dec-22	663	202						
32									
33									
34									
35									

Coefficient of Variation:	1.22	1.27						
Mann-Kendall Statistic (S):	-56	-56						
Confidence Factor:	>99.9%	>99.9%						
Concentration Trend:	Decreasing	Decreasing						



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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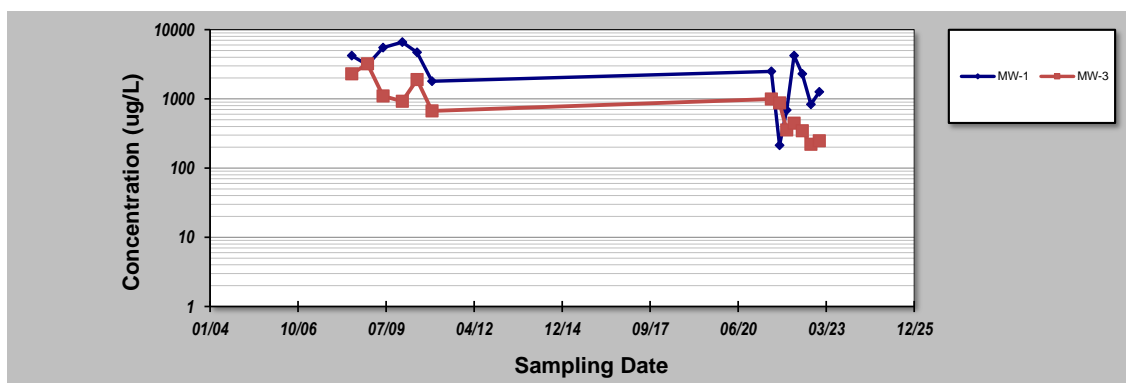
GSI MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: 11-Jan-23	Job ID: Sunoco Duns #0651-9128
Facility Name: Sunoco Duns #0651-9128 (Rising Sun)	Constituent: TPH DRO
Conducted By: T. Mills	Concentration Units: ug/L

Sampling Point ID:	MW-1	MW-3	
--------------------	-------------	-------------	--

Sampling Event	Sampling Date	TPH DRO CONCENTRATION (ug/L)			
1	7-Jul-05				
2	14-Dec-05				
3	20-Apr-06				
4	28-Dec-06				
5	27-Jun-07				
6	23-Jan-08				
7	9-Jun-08	4200	2300		
8	7-Dec-08	3100	3200		
9	1-Jun-09	5500	1100		
10	6-Jan-10	6600	920		
11	22-Jun-10	4700	1900		
12	9-Dec-10	1800	670		
13	22-Dec-11				
14	17-Dec-12				
15	30-Dec-13				
16	9-Dec-14				
17	2-Dec-15				
18	14-Dec-16				
19	7-Dec-17				
20	30-Oct-18				
21	2-Oct-19				
22	26-Aug-20				
23	6-Nov-20				
24	17-Feb-21				
25	29-Jun-21	2500	992		
26	30-Sep-21	213	871		
27	21-Dec-21	689	354		
28	15-Mar-22	4210	446		
29	17-Jun-22	2300	346		
30	23-Sep-22	830	221		
31	27-Dec-22	1260	248		
32					
33					
34					
35					

Coefficient of Variation:	0.69	0.87	
Mann-Kendall Statistic (S):	-32	-62	
Confidence Factor:	97.1%	>99.9%	
Concentration Trend:	Decreasing	Decreasing	



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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