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Date: January 24, 2022
Our Ref: 30062947
Subject: **Fourth Quarter 2021 Groundwater Monitoring Report**
Chevron Facility #6518040
Former Gulf Oil Terminal
3705 Hampton Road, Oceanside, New York
NYSDEC Site #130165

Dear Mr. Scharf,

On behalf of Chevron Environmental Management Company (CEMC), Arcadis of New York, Inc. (Arcadis) has prepared this Fourth Quarter 2021 Groundwater Monitoring Report for the New York State Department of Environmental Conservation (NYSDEC) in accordance with the Order on Consent and Administrative Settlement for the former Gulf Oil Terminal in Oceanside, New York, NYDEC Site #130165 (site; **Figure 1**). This monitoring report summarizes the November 16 and 17, 2021 groundwater sampling event. On December 7, 2017, NYSDEC and CEMC agreed to quarterly progress reporting in lieu of monthly reporting. Relevant site features and existing groundwater monitoring wells are presented on **Figure 2**.

Groundwater Gauging

On November 15, 2021, 35 monitoring wells (AMW-3, AMW-7R, AMW-13-D1, AMW-13-D2, AMW-13-VD, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-VD, AMW-15-D3, MW-18R, MW-23-D1R, MW-23-D2R, MW-24-D1R, MW-24-D2, MW-24-VDR, MW-26-D1, MW-26-D2, MW-26-VD, MW-27-D2, MW-27-D1R, MW-28-D1, MW-28-D2R, MW-29-D1, MW-29-D2, MW-29-VD, MW-30-D1, MW-30-D2, MW-30-VD, MW-31-D1R, MW-31-D2R, MW-32D, and OW-2-D1) were gauged prior to extracting HydraSleeves™.

Monitoring wells were gauged during high tide at the site on November 15, 2021. Measured depth-to-groundwater in the D1 horizon ranged from 5.24 feet below top of inner casing (btic) in MW-29-D1 to 10.85 feet btic in AMW-13-D1. Measured depth-to-groundwater in the D2 horizon ranged from 5.46 feet btic in MW-29-D2 to 11.36 feet btic in MW-23-D2R. Measured depth-to-groundwater in the VD horizon ranged from 5.36 feet btic in MW-29-VD to 10.40 feet btic in AMW-13-VD. Groundwater elevation data were used to generate Groundwater Elevation Contour Maps for horizon D1, D2, and VD and are included as **Figures 3, 4, and 5**, respectively. The approximate groundwater flow direction for the D1 horizon is to the south, the D2 horizon is to the west, and for the VD horizon to the northwest. The well gauging data is summarized in **Table 1** and illustrated on **Figures 3, 4, and 5**.

Groundwater Sampling

On November 16 and 17, 2021, groundwater samples were collected from HydraSleeves™ that were deployed in 20 monitoring wells (AMW-7R, AMW-14-D1, AMW-14-D2, AMW-14-VD, AMW-15-D1, AMW-15-D2, AMW-15-VD, AMW-15-D3, MW-18R, MW-23-D1R, MW-23-D2R, MW-24-D1R, MW-24-VDR, MW-24-D2, MW-26-D1, MW-26-D2, MW-27-D1R, MW-27-D2, MW-28-D1, and MW-28-D2R). Monitoring well MW-29-D1 was not sampled as the HydraSleeve™ could not be located/retrieved. Prior to collection, groundwater parameters (pH, temperature, specific conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity) were collected. The groundwater samples were placed in laboratory-supplied containers, packaged on ice, and transported to Pace Analytical Inc. in Mt. Juliet, Tennessee (New York Certification #11742). Groundwater samples were collected for:

- Dissolved-phase volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C
- Total iron, sodium, and manganese by USEPA Method 6010C
- Nitrite and nitrate by USEPA Method 353.2
- Alkalinity by USEPA Method 2320 B-2011
- Sulfate and chloride by USEPA Method 9056A
- Sulfide by USEPA Method SM 4500S2 D-2011
- Total organic carbon by USEPA Method 9060A
- Ferric and ferrous iron by USEPA Method 3500 Fe B-2011
- Carbon dioxide by USEPA Method 4500CO2 D-2011
- Ethane, ethene, and methane by USEPA Method RSK-175.

The following summarizes the dissolved VOC constituents that were detected above the NYSDEC Technical and Operational Guidance Series (TOGS) guidance values in the samples collected during the Q4 2021 sampling event:

- Benzene exceeded the TOGS Water Guidance value of 1 microgram per Liter (µg/L) at monitoring wells AMW-14-D1 (2.10 µg/L), AMW-15-D1 (6.78 µg/L), AMW-15-D3 (9.89 µg/L), MW-18R (45.3 µg/L), MW-24-D1R (8.94 µg/L), MW-26-D1 (5.60 µg/L), MW-27-D1R (5.67 µg/L) and MW-28-D1 (6.10 µg/L).
- Ethylbenzene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring wells AMW-15-D1 (5.19 µg/L) and MW-24-D1R (5.98 µg/L).
- Xylene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring wells MW-18R (7.81 µg/L) and MW-24-D1R (12.6 µg/L).
- Methyl tert-butyl ether (MTBE) exceeded the TOGS Water Guidance value of 10 µg/L at monitoring wells AMW-14-D1 (55.8 µg/L), AMW-14-D2 (23.6 µg/L), AMW-15-D1 (149 µg/L), AMW-15-D2 (62.0 µg/L), AMW-15-D3 (61.7 µg/L), MW-18R (26.5 µg/L), MW-23-D1R (95.3 µg/L), MW-23-D2R (18.2 µg/L), MW-24-D1R (199 µg/L), MW-24-D2 (224 µg/L), and MW-26-D1 (75.6 µg/L), and MW-27-D1R (37.6 µg/L).
- Vinyl chloride exceeds the TOGS Water Guidance value of 2 µg/L at monitoring wells AMW-14-D1 (10.4 µg/L), AMW-15-D3 (5.59 µg/L), MW-26-D1 (6.74 µg/L), and MW-27-D1R (43.7 µg/L).
- Trans-1,2-dichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-14-D1 (14.6 µg/L), AMW-15-D1 (5.81 µg/L), and MW-24-D1R (10.9 µg/L).
- Trichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-15-D3 (45.7 µg/L).

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- Isopropylbenzene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well MW-18R (5.95 µg/L).
- Acetone exceeded the TOGS Water Guidance value of 50 µg/L at monitoring well AMW-15-D3 (60.5 C3 µg/L). The lab defines the C3 qualifier as the reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
- Cis-1,2-dichloroethene exceeded the TOGS Water Guidance value of 5 µg/L at monitoring well AMW-15-D3 (12.1 µg/L).

A blind duplicate sample was collected from monitoring well MW-24-D1R. Duplicate sample results were within acceptable ranges of the parent sample. The analytical results are summarized in **Table 2** and are illustrated on **Figure 6**. A Copy of the laboratory analytical report is included in **Attachment 2**. Historical groundwater analytical results are presented in **Table 3**. Following groundwater sampling, HydraSleeves™ were deployed in 20 monitoring wells.

Future Site Activities

The next quarterly sampling event will be completed in January/February 2022. If you have any questions regarding this progress report or require any additional information, please do not hesitate to contact me at 724.934.9501 or at edwin.ptak@arcadis.com.

Sincerely,
Arcadis U.S., Inc.



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Enclosures:

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- 2 Site Plan
- 3 D1 Horizon Groundwater Contour Map – November 15, 2021
- 4 D2 Horizon Groundwater Contour Map – November 15, 2021
- 5 VD Horizon Groundwater Contour Map – November 15, 2021
- 6 Groundwater Analytical Results – November 15-16, 2021

Attachments

- 1 Groundwater Gauging and Sampling Logs
- 2 Laboratory Analytical Report

Tables

Table 1
Groundwater Elevation Data – November 15, 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Monitoring Well ID	Date	Well Depth (feet below TOC)	TOC Elevation (feet NAVD 88)*	Depth to LNAPL (feet below TOC)	Depth to Groundwater (feet below TOC)	Groundwater Table Elevation (feet NAVD 88*)
Shallow Fill Unit Monitoring Wells						
AMW-3	11/15/2021	12.40	9.05	ND	6.21	2.84
AMW-7R	11/15/2021	13.86	9.95	ND	8.25	1.70
MW-18R	11/15/2021	9.94	7.98	ND	4.54	3.44
D1 Horizon Monitoring Wells						
AMW-13-D1	11/15/2021	32.90	9.87	ND	10.85	-0.98
AMW-14-D1	11/15/2021	32.70	9.38	ND	9.89	-0.51
AMW-15-D1	11/15/2021	35.80	9.74	ND	10.55	-0.81
MW-23-D1R	11/15/2021	25.78	9.84	ND	10.63	-0.79
MW-24-D1R	11/15/2021	31.53	9.82	ND	8.42	1.40
MW-26-D1	11/15/2021	29.68	9.95	ND	10.64	-0.69
MW-27-D1R	11/15/2021	32.30	9.01	ND	9.32	-0.31
MW-28-D1	11/15/2021	30.71	8.25	ND	8.43	-0.18
MW-29-D1	11/15/2021	21.49	5.21	ND	5.24	-0.03
MW-30-D1	11/15/2021	29.76	8.74	ND	8.74	0.00
MW-31-D1R	11/15/2021	29.92	8.39	ND	8.48	-0.09
MW-32D	11/15/2021	35.97	8.85	ND	7.00	1.85
OW-2-D1	11/15/2021	33.66	9.94	ND	10.75	-0.81
D2 Horizon Monitoring Wells						
AMW-13-D2	11/15/2021	42.77	9.76	ND	10.80	-1.04
AMW-14-D2	11/15/2021	42.68	9.37	ND	9.93	-0.56
AMW-15-D2	11/15/2021	40.93	9.71	ND	10.50	-0.79
MW-23-D2R	11/15/2021	45.06	10.52	ND	11.36	-0.84
MW-24-D2	11/15/2021	41.40	10.00	ND	10.21	-0.21
MW-26-D2	11/15/2021	43.22	9.40	ND	8.70	0.70
MW-27-D2	11/15/2021	46.37	9.09	ND	9.41	-0.32
MW-28-D2R	11/15/2021	46.41	8.40	ND	8.84	-0.44
MW-29-D2	11/15/2021	37.72	5.38	ND	5.46	-0.08
MW-30-D2	11/15/2021	40.25	8.72	ND	8.74	-0.02
MW-31-D2R	11/15/2021	45.85	8.35	ND	8.51	-0.16
D3 Horizon Monitoring Wells						
AMW-15-D3	11/15/2021	48.63	9.81	ND	10.50	-0.69
VD Horizon Monitoring Wells						
AMW-13-VD	11/15/2021	70.38	9.43	ND	10.40	-0.97
AMW-14-VD	11/15/2021	74.37	9.25	ND	9.68	-0.43
AMW-15-VD	11/15/2021	71.05	9.82	ND	10.16	-0.34
MW-24-VDR	11/15/2021	69.79	9.72	ND	10.09	-0.37
MW-26-VD	11/15/2021	68.70	7.03	ND	9.55	-2.52
MW-29-VD	11/15/2021	59.73	5.27	ND	5.36	-0.09
MW-30-VD	11/15/2021	82.44	8.70	ND	7.85	0.85

Notes:

*Top of casing elevations were surveyed by Borbas Surveying & Mapping, LLC, September 18, 2017 and re-drilled wells on June 1, 2018.

in = Inches

TOC = top of casing

NAVD 88 = North America Vertical Datum of 1988

LNAPL = light non aqueous phase liquid

ND = not detected

NG = not gauged

Table 2
Summary of Groundwater Sampling Results – November 16-17, 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Lab Sample ID	Date Sampled	Volatile Organics										GC Volatiles - RSK-175	Inorganics			General Chemistry				
		Benzene	Toluene	Ethylbenzene	Xylene (total)	Methyl-t-butyl ether	Isopropyl-benzene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Trichloro-ethene (Trichloro-ethylene)	Vinyl Chloride Chloroethene)	Carbon Dioxide	Iron	Manganese	Sodium	Alkalinity, Total as CaCO3	Chloride	Ferric Iron	Nitrate-Nitrite	
NYSDEC TOGS 1.1.1		1	5	5	5	10	5	5	5	5	2	NE	300	300	20,000	NE	250	NE	10,000	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	
AMW-14-D1	11/16/2021	2.10	0.313 J	2.18	2.95 J	55.8	0.516 J	0.227 J	14.6	0.369 J	10.4	1.66	4,560	38.6	1,180,000	674,000	3,010	4.37	<100	
AMW-14-D2	11/16/2021	<1.00	<1.00	<1.00	<3.00	23.6	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	5,870	145	2,310,000	810,000	4,100	4.77	227	
AMW-14-VD	11/16/2021	<1.00	<1.00	<1.00	<3.00	0.267 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	20,000	383	8,670,000	448,000	13,500	1.38	<100	
AMW-7R	11/16/2021	0.124 J	<1.00	<1.00	<3.00	<1.00	1.62	<1.00	<1.00	<1.00	<1.00	<1.00	3,360	1,640	108,000	640,000	77	<0.100	<100	
AMW-15-D1	11/16/2021	6.78	0.392 J	5.19	2.26 J	149	0.709 J	0.229 J	5.81	0.265 J	<1.00	1.42	612	17.9	1,230,000	494,000	2,140	0.394	<100	
AMW-15-D2	11/16/2021	0.538 J	<1.00	<1.00	<3.00	62.0	<1.00	0.161 J	0.367 J	<1.00	<1.00	0.885 J	362	166	1,450,000	490,000	2,990	<0.05	242	
AMW-15-D3	11/16/2021	9.89	1.99	1.57	3.66	61.7	0.435 J	12.1	0.499 J	45.7	5.59	2.96	584	8.71 J	479,000	350,000	621	0.376	<100	
AMW-15-VD	11/16/2021	<1.00	<1.00	<1.00	<3.00	0.562 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	13,300	281	8,640,000	507,000	16,700	<0.100	<100	
MW-18R	11/16/2021	45.3	3.83	1.35	7.81	26.5	5.95	0.357 J	<1.00	<1.00	<1.00	1.98	553	42.6	507,000	199,000	853	<0.05	<100	
MW-23-D1R	11/16/2021	<1.00	<1.00	<1.00	<3.00	95.3	0.368 J	0.529 J	<1.00	<1.00	<1.00	1.06	3,070	1,120	770,000	275,000	1,390	1.78	240	
MW-23-D2R	11/16/2021	0.0984 J	<1.00	<1.00	<3.00	18.2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2,140	1,510	1,710,000	600,000	3,710	<0.100	<100	
MW-24-D1R	11/16/2021	8.94 [8.91]	0.583 J [0.620 J]	5.98 [6.64]	12.6 [12.3]	199 [185]	0.729 J [0.703 J]	<1.00 [<1.00]	10.9 [9.11]	<1.00 [0.208 J]	<1.00 [0.391 J]	2.66 [1.36]	3,390 [15,100]	294 [290]	1,370,000 [1,390,000]	413,000 [313,000]	2,300 [2,500]	0.956 [12.9]	<100 [<100]	
MW-24-D2	11/16/2021	0.406 J	<1.00	<1.00	0.180 J	224	0.209 J	0.555 J	0.668 J	<1.00	<1.00	1.19	556	22.4	453,000	320,000	854	<0.05	<100	
MW-24-VDR	11/16/2021	0.125 J	<1.00	<1.00	<3.00	0.249 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1,130	7.12 J	47,300	18,900 J	172	<0.100	398	
MW-26-D1	11/16/2021	5.60	<1.00	0.947 J	1.37 J	75.6	0.509 J	<1.00	1.65	<1.00	6.74	1.38	335	17.9	1,320,000	418,000	2,290	0.183	<100	
MW-26-D2	11/16/2021	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.770 J	1,310	1,300	2,320,000	168,000	5,590	<0.100	1,130	
MW-27-D1R	11/17/2021	5.67	1.20	0.722 J	1.67 J	37.6	<1.00	1.10	3.89	0.355 J	43.7	1.34	684	57.9	2,270,000	764,000	4,260	0.406	<100	
MW-27-D2	11/17/2021	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	5,380	1,280	3,690,000	252,000	6,730	<0.100	<100	
MW-28-D1	11/16/2021	6.10	<1.00	1.53	1.75 J	7.56	0.200 J	<1.00	0.185 J	<1.00	<1.00	1.38	820	43.1	108,000	104,000	202	0.201	<100	
MW-28-D2R	11/16/2021	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.57	6,620	2,020	4,550,000	341,000	5,880	<0.100	<100	
MW-29-D1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Notes:
ID = Identification
NYSDEC = New York State Department of Environmental Conservation
TOGS = NYSDEC Technical and Operational Guidance Series ambient water quality standards and guidance values of June 1998
<1.0 = not detected at or above the reporting limit
mg/L = milligrams per liter
ug/L = micrograms per liter
Bold = detected concentration
Shade = concentration was above the TOGS
B = The same analyte is found in the associated blank.
C5 = The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result
CaCO3 '= calcium carbonate
J = Analyte was detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
J4 = The associated batch QC was outside the established quality control range for accuracy
T8 = Sample(s) received past/too close to holding time expiration.
NE = Not established
-- = Not sampled.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
AMW-13-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-13-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-13-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.91 J	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.180 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/19/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.606 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	
	11/04/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.790 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.561 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	06/02/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	0.739 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.950 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.440 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
	08/19/2020	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J4	
	11/05/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	06/02/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.129 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
AMW-14-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	
	06/10/2020	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/20/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	0.350 J	< 1.00	< 1.00 J4	
	11/05/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	0.119 J	< 1.00	< 1.00	
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	0.221 J	< 1.00	< 1.00	
	06/02/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	0.293 J	< 1.00	< 1.00	
AMW-14-VD															
AMW-15-D1	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	10/26/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/26/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	
	08/19/2020	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 25.0	< 5.00	< 5.00 J4	< 5.00	< 5.00	< 5.00	
	11/04/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.325 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	03/19/2021	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 25.0	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	
	06/02/2021	< 1.00 J3	< 1.00	< 1.00	< 1.00	< 1.00 J3	< 1.00	< 1.00 J3	< 5.00	< 1.00 J3	< 1.00	< 1.00 J3	< 1.00	< 1.00	
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.665 J	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-15-D2	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/19/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00 J4	< 1.00	< 1.00	< 1.00	
	11/04/2020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	03/19/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	06/02/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	08/12/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	11/16/2021	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloro-trifluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.187 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.104 J	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.139 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
AMW-15-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	0.144 J	<1.00	<1.00	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	0.101 J	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
AMW-3	01/13/2016	< 5.0	< 5.0	< 5.0	4.8 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/11/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
ASB-2	06/06/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-4	06/07/2016	4.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
ASB-5	06/02/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<5.00	<5.00	<5.00	<5.00 J4	<5.00	<5.00	<5.00	<25.00	<5.00	<5.00	<5.00	<5.00	<5.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-23-D1R	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/26/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-23-D2R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/12/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloro-fluoroethane (Freon 113)	1,1-Dichloro-ethene	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-24-VDR (cont.)	08/18/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.285 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.218 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.159 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.403 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.302 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.102 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-27-D1R (cont.)	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.00	<5.00	<5.00	<5.00	<5.00	<5.00 J4	
	11/06/2020	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<25.00	<5.00	<5.00	<5.00	<5.00	<5.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.359 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.278 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.268 J	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.353 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.430 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.483 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.118 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.242 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.149 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-28-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.76 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.209 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.172 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.741 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.163 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.213 J	<1.00 J4	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-28-D2R	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,1 Dichloro-ethene	1,1,1-Trichloro-ethene	1,1,2,2-Tetrachloro-ethene	1,1,2-Trichloro-ethene	1,1,2-Trichloro-fluoroethane (Freon 113)	1,1-Dichloro-ethane	1,2,4-Trichloro-benzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-ethane	1,2-Dichloro-benzene (o-Dichloro-benzene)	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	
NYSDEC TOGS 1.1.1		5	5	5	1	5	5	5	0.04	0.0006	3	0.6	1	3	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	0.155 J	<1.00	<5.00	<1.00	0.205 J	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.186 J	<1.00	<5.00	<1.00	0.251 J	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	0.342 J	<1.00	<5.00	<1.00	0.109 J	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.217 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	0.211 J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.147 J	<1.00 J4	<5.00	<1.00	0.401 J	<1.00	<1.00	<1.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	0.180 J	<1.00	<5.00	<1.00	0.392 B J	<1.00	<1.00	<1.00	
	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
MW-29-D1	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0 *	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00 J4	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00 J4	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-29-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D1R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-12	01/14/2016	< 5.0	< 50	< 25	< 25	25 J	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
AMW-13-D1	06/24/2016	< 1.0	< 10	< 5.0	< 5.0	6.5 J	< 1.0	0.99 J	3.4	< 1.0	2.7	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	3.4 J	4.5	< 1.0	1.1	< 1.0	2.8	< 1.0	< 1.0	< 1.0	
AMW-13-D2	06/23/2016	< 1.0	< 10	< 5.0	3.3 J	3.2 J	< 1.0	0.97 J	4.2	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	4.8 J	< 1.0	< 1.0	0.62 J	< 1.0	12	< 1.0	< 1.0	< 1.0	
AMW-13-VD	06/23/2016	< 1.0	3.2 J	< 5.0	< 5.0	18	< 1.0	< 1.0	3.1	< 1.0	1.5	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	5.8 J	< 5.0	2.4 J	46	< 1.0	< 1.0	< 1.0	< 1.0	7.9	< 1.0	< 1.0	< 1.0	
AMW-14-D1	06/24/2016	< 1.0	< 10	< 5.0	< 5.0	4.6 J	< 1.0	0.85 J	2.5	< 1.0	2.6	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 10	< 5.0	< 5.0	3.9 J	4.3	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 40	< 20	< 20	< 40	2.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 20	< 10	< 10	< 20	4.7	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0	
	07/12/2018	< 8.0	< 80	< 40	< 40	< 80	5.3 J	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	0.98 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	7.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	0.533 J	< 1.00	< 1.00	< 5.00	0.294 J	< 1.00	< 1.00	< 5.00	
	08/19/2020	< 1.00 J4	< 10.0	< 10.0	< 10.0	< 50.0	5.40	< 1.00	< 1.00	< 5.00	0.615 J	< 1.00	< 1.00	< 5.00	
	11/04/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	7.94	< 1.00	< 1.00 C3 J4	< 5.00	< 1.00	< 1.00 C3	< 1.00	< 5.00	
	03/19/2021	< 1.00	< 10.0	< 10.0	1.41 J	< 50.0	3.41	< 1.00	< 1.00 C3	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	06/02/2021	< 1.00	< 10.0 C3	< 10.0	< 10.0	< 50.0 C3	6.24	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	08/12/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	5.51	< 1.00	< 1.00	< 5.00	0.713 J	< 1.00	< 1.00	< 5.00	
	11/16/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0 C3	2.10	< 1.00	< 1.00	< 5.00	1.66	< 1.00	< 1.00	< 5.00	
AMW-14-D2	06/23/2016	< 1.0	< 10	< 5.0	3.2 J	3.3 J	< 1.0	0.99 J	4.6	< 1.0	5.5	< 1.0	< 1.0	< 1.0	
	07/26/2016	< 1.0	< 10	< 5.0	< 5.0	3.1 J	0.88 J	< 1.0	1.3	< 1.0	12	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	9.6 J	< 1.0	< 1.0	< 1.0	< 1.0	8.4	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	< 10.0	< 100	< 100	< 100	< 500	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 50.0	
	08/19/2020	< 10.0 J4	< 100	< 100	< 100	< 500	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 50.0	
	11/05/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	0.533 J	< 1.00	< 1.00	< 5.00	
	03/19/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00 C3	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	06/02/2021	< 1.00	< 10.0 C3	< 10.0	< 10.0	< 50.0 C3	0.249 BJ	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	08/12/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0 C3	< 1.00	< 1.00	< 1.00 C3	< 5.00	1.10 B	< 1.00	< 1.00	< 5.00	
	11/16/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0 C3	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
AMW-14-VD	06/23/2016	< 1.0	3.9 J	< 5.0	2.1 J	22	< 1.0	0.87 J	3	< 1.0	0.63 J	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	8.9 J	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	3.7 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	
	07/12/2018	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	09/13/2019	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/05/2019	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	02/12/2020	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	06/10/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00	
	08/20/2020	<1.00 J4	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	11/05/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00	
	03/19/2021	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.120 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	1.23 B	<1.00	<1.00	<5.00	
AMW-14-VD	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
AMW-15-D1	06/23/2016	< 1.0	< 10	< 5.0	2.1 J	4.2 J	0.48 J	< 1.0	2.2	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 5.0	< 50	< 25	< 25	< 50	3.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	10/26/2016	< 10	< 100	< 50	< 50	< 100	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/26/2016	< 4.0	< 40	< 20	< 20	< 40	5.1	< 4.0	< 4.0	< 4.0	1.7 J	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	2.7 J	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 20	< 10	< 10	< 20	11	< 2.0	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 5.0	< 250	< 50	< 50	< 130	12	< 5.0	< 5.0	< 5.0	1.7 J	< 5.0	< 5.0	< 5.0	
	05/09/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.3	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<5.00	<50.0	<50.0	<50.0	<250	6.35	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00	<25.0	
	08/19/2020	<5.00	<50.0	<50.0	<50.0	<250	4.70 J	<5.00	<5.00	<25.0	6.45	<5.00	<5.00	<25.0	
	11/04/2020	<1.00	<10.0	<10.0	<10.0	<50.0	3.55	<1.00	<1.00	<5.00	0.777 J	<1.00	<1.00	<5.00	
	03/19/2021	<5.00	<50.0	<50.0	<50.0	<250	5.80	<5.00	<5.00 C3	<25.0	<5.00	<5.00	<5.00	<25.0	
	06/02/2021	<1.00	<10.0 J3	<10.0	<10.0 J3	<50.0	1.74	<1.00 J3	<1.00	3.35 J	0.320 J	<1.00	<1.00 J3	<5.00 J3	
	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	6.78	<1.00	<1.00	<5.00	1.42	<1.00	<1.00	<5.00	
	06/23/2016	< 1.0	< 10	< 5.0	< 5.0	9.3 J	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	1.3 J	< 5.0	< 5.0	11	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	3.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	
AMW-15-D2	10/26/2016	< 1.0	< 10	< 5.0	< 5.0	13	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 10	< 5.0	< 5.0	5.1 J	0.47 J	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	9.8	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.123 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/19/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.102 J	<1.00	<1.00	<5.00	2.33	<1.00	<1.00	<5.00	
	11/04/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.529 J	<1.00	<1.00 C3 J4	<5.00	<1.00	<1.00 C3	<1.00	<5.00	
	03/19/2021	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.230 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	<10.0	<50.0 C3	0.824 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	4.08 B	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	0.538 J	<1.00	<1.00	<5.00	0.885 J	<1.00	<1.00	<5.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-15-D3	06/23/2016	< 1.0	< 10	< 5.0	< 5.0	6.9 J	< 1.0	< 1.0	< 1.0	< 1.0	4.4	< 1.0	< 1.0	< 1.0	
	06/23/2016	< 1.0	< 10	< 5.0	< 5.0	7.3 J	< 1.0	< 1.0	< 1.0	< 1.0	4.6	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	3.6 J	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	36 J	3.7 J	< 4.0	< 4.0	< 4.0	1.8 J	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 20	< 10	< 10	16 J	< 2.0	< 2.0	< 2.0	< 2.0	0.70 J	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	0.318 J	< 1.00	< 1.00 J4	< 5.00	
	08/19/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	0.664 J	< 1.00	< 1.00	< 5.00	1.93	< 1.00	< 1.00	< 5.00	
	11/04/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	0.430 J	< 1.00	< 1.00 C3 J4	< 5.00	< 1.00	< 1.00 C3	< 1.00	< 5.00	
	03/19/2021	< 1.00	11.0	< 10.0	0.640 J	62.4	12.8	< 1.00	< 1.00	< 5.00	1.23	< 1.00	< 1.00	< 5.00	
	06/01/2021	< 1.00	3.00 C3J	< 10.0	< 10.0	17.1 C3J	2.75	< 1.00	< 1.00	< 5.00	1.29	< 1.00	< 1.00	< 5.00	
	08/12/2021	< 1.00	22.8	< 10.0	0.960 J	84.1 C3	15.4	< 1.00	< 1.00 C3	< 5.00	5.26	< 1.00	< 1.00	< 5.00	
	11/16/2021	< 1.00	16.2	< 10.0	0.843 J	60.5 C3	9.89	< 1.00	< 1.00	< 5.00	2.96	< 1.00	< 1.00	< 5.00	
AMW-15-VD	06/23/2016	< 1.0	< 10	< 5.0	< 5.0	3.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/27/2016	< 1.0	< 10	< 5.0	< 5.0	8.3 J	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/11/2017	< 1.0	< 10	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	
	08/19/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	11/04/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00 C3 J4	< 5.00	< 1.00	< 1.00 C3	< 1.00	< 5.00	
	03/19/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	06/02/2021	< 1.00	< 10.0 C3	< 10.0	< 10.0	< 50.0 C3	0.120 BJ	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	08/12/2021	< 1.00	3.67 J	< 10.0	< 10.0	16.8 C3J	< 1.00	< 1.00	< 1.00 C3	< 5.00	1.47 B	< 1.00	< 1.00	< 5.00	
	11/16/2021	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0 C3	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
AMW-3	01/13/2016	< 5.0	< 50	< 25	< 25	< 50	280	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	3.4 J	< 5.0	< 5.0	21	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	
AMW-7R	01/12/2016	< 5.0	< 50	< 25	< 25	30 J	5.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 10	< 5.0	< 5.0	6.2 J	1.1	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	
	07/11/2018	< 2.0	< 20	< 10	< 10	< 20	0.82 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	8.1 J	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.82 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	0.926 J	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00 J4	< 5.00	
	08/19/2020	< 1.00 J4	< 10.0	< 10.0	< 10.0	< 50.0	0.566 J	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 5.00	
	11/06/2020	< 1.00	< 10.0	< 10.0	< 10.0	< 50.0	0.214 J	< 1.00	< 1.00 C3	< 5.00 C3	0.271 J	< 1.00	< 1.00	< 5.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro- benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2- pentanone	Acetone	Benzene	Bromo- dichloro- methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro- benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<1.00	<10.0	<10.0	<10.0	<50.0	0.0960 J	<1.00	<1.00	<5.00	0.140 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	<10.0	<50.0 C3	1.08 B	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	0.109 J	<1.00	<1.00 C3	<5.00	1.06 B	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	0.124 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
ASB-2	06/06/2016	< 1.0	< 10	< 5.0	6	20	1.8	1.9	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	< 1.0	< 10	< 5.0	< 5.0	5.5 J	< 1.0	0.75 J	2.4	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	
ASB-4	06/07/2016	< 5.0	< 50	< 25	< 25	< 50	3.0 J	< 5.0	< 5.0	< 5.0	0.95 J	< 5.0	< 5.0	< 5.0	
ASB-5	06/02/2016	< 1.0	1.4 J	< 5.0	5	12	< 1.0	1.5	< 1.0	< 1.0	0.53 J	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	< 2.0	< 20	< 10	5.3 J	< 20	< 2.0	3.3	< 2.0	< 2.0	1.1 J	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 10	< 100	< 50	< 50	< 100	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	07/11/2018	< 20	74 J	< 100	< 100	330	48	< 20	< 20	< 20	6.2 J	< 20	< 20	< 20	
	10/17/2018	< 5.0	70 J	< 50	< 50	230	69	< 5.0	< 5.0	< 5.0	2.4 J	< 5.0	< 5.0	< 5.0	
	09/14/2019	< 1.0	10	< 5.0	2.2 J	47	85	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	33	3.7 J	2.9 J	130	74	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	19	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<5.00	10.7 J	<50.0	<50.0	<250	27.0	<5.00	<5.00	<25.0	1.26 J	<5.00	<5.00 J4	<25.0	
	03/19/2021	<1.00	12.6	1.62 J	1.76 J	44.4 J	8.34	<1.00	<1.00	<5.00	1.28	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	3.59 C3J	<10.0	0.967 J	16.8 C3J	8.23	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	14.0	<10.0	2.81 J	68.6	33.2	<1.00	<1.00	<5.00	2.58	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	5.30 J	<10.0	1.95 J	16.2 C3 J	45.3	<1.00	<1.00	<5.00	1.98	<1.00	<1.00	<5.00	
	10/26/2016	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	0.53 J	< 2.0	< 2.0	< 2.0	
	10/26/2016	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/12/2016	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
MW-23-D1R	06/20/2016	< 1.0	< 10	< 5.0	< 5.0	6.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	3.8	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.408 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/19/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.312 J	<1.00	<1.00	<5.00	0.671 J	<1.00	<1.00	<5.00	
	11/05/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.0955 J	<1.00	<1.00 C3	<5.00 C3	0.400 J	<1.00	<1.00	<5.00	
	03/19/2021	<1.00	<10.0	<10.0	<10.0	<50.0	0.150 J	<1.00	<1.00	<5.00	0.142 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	<10.0	<50.0 C3	0.158 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	0.151 J	<1.00	<1.00 C3	<5.00	8.06	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	1.06	<1.00	<1.00	<5.00	
MW-23-D2R	01/12/2016	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 10	< 5.0	< 5.0	23	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	4.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	< 1.0	< 1.0	< 1.0	
	07/12/2018	<1.0	<5.0	<5.0	<5.0	<5.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/09/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.407 J	<1.00	<1.00	<5.00	0.253 J	<1.00	<1.00	<5.00	
	11/05/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.447 J	<1.00	<1.00	<5.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro- benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2- pentanone	Acetone	Benzene	Bromo- dichloro- methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro- benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-24-VDR (cont.)	08/18/2020	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<1.00	<5.00	0.394 J	<1.00	<1.00	<5.00	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.423 J	<1.00	<1.00	<5.00	
	03/19/2021	<1.00	<1.00	<1.00	2.68 J	139	<1.00	<1.00	<1.00	<5.00	0.150 J	<1.00	<1.00	<5.00	
	06/01/2021	<1.00	<10.0 C3	<1.00	<1.00	<50.0 C3	0.126 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<50.0 C3	0.125 J	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 25	< 25	< 50	9.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 4.0	< 4.0	< 20	< 20	< 40	9.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/25/2016	< 10	< 100	< 50	< 50	< 100	8.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/25/2016	< 4.0	< 4.0	< 20	< 20	< 40	12	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 10	< 100	< 50	< 50	< 100	8.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	08/27/2017	< 10	< 100	< 50	< 50	< 100	9.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	10/11/2017	< 2.0	< 20	< 10	< 10	6.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 20	< 10	< 10	< 20	17	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	4.9	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	7.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<50.0	8.93	<1.00	<1.00	<5.00	0.773 J	<1.00	<1.00	<5.00	
	08/19/2020	<1.00 J4	<1.00	<1.00	<1.00	<50.0	6.46	<1.00	<1.00	<5.00	0.360 J	<1.00	<1.00	<5.00	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<50.0	5.88	<1.00	<1.00 C3	<5.00 C3	0.582 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<1.00	<1.00	<50.0 C3	8.13	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<50.0	5.78	<1.00	<1.00	<5.00	0.556 J	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<50.0 C3	5.60	<1.00	<1.00	<5.00	1.38	<1.00	<1.00	<5.00	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	
	10/25/2016	< 2.0	< 20	< 10	< 10	9.4 J	< 2.0	< 2.0	< 2.0	< 2.0	0.60 J	< 2.0	< 2.0	< 2.0	
	10/25/2016	< 2.0	< 20	< 10	< 10	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 8.0	< 80	< 40	< 40	< 80	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	
	10/11/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.79 J	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/19/2020	<1.00 J4	<1.00	<1.00	<1.00	<50.0	<1.00	<1.00	<1.00	<5.00	0.204 J	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<50.0 C3	<1.00	<1.00	<1.00	<5.00	0.770 J	<1.00	<1.00	<5.00	
MW-26-VD	01/13/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	170	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	
MW-27-D1R	01/13/2016	< 5.0	< 50	< 25	< 25	53	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	1.7 J	< 5.0	< 5.0	5.0 J	< 1.0	< 1.0	< 1.0	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 20	< 10	< 10	< 20	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 20	< 10	< 10	< 20	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 20	< 10	< 10	< 20	7.8	< 2.0	< 2.0	< 2.0	0.64 J	< 2.0	< 2.0	< 2.0	
	10/18/2018	< 1.0	< 50	< 10	< 10	< 25	3.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-27-D1R (cont.)	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	6.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/19/2020	<5.00 J4	<5.0	<5.0	<5.0	<25.0	3.12 J	<5.00	<5.00	<25.0	0.852 J	<5.00	<5.00	<25.0	
	11/06/2020	<5.00	<5.0	<5.0	<5.0	<25.0	2.58 J	<5.00	<5.00 C3	<25.0 C3	1.74 J	<5.00	<5.00	<25.0	
	03/20/2021	<1.00	<1.0	<1.0	<1.0	<5.0	2.56	<1.00	<1.00 C3	<5.00	<1.00	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<1.0	<1.0	<50.0 C3	3.98	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	3.05	<1.00	<1.00 C3	<5.00	10.7	<1.00	<1.00	<5.00	
	11/17/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	5.67	<1.00	<1.00	<5.00	1.34	<1.00	<1.00	<5.00	
MW-27-D2	01/13/2016	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 4.0	8.2 J	< 20	< 20	38 J	160	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/12/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<10.0	<1.0	<1.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.133 J	<1.00	<1.00 J4	<5.00	
	08/19/2020	<1.00 J4	<1.0	<1.0	<1.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	11/06/2020	<1.00	<1.0	<1.0	<1.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	<1.00	<1.00	<1.00	<5.00	
	03/20/2021	<1.00	<1.0	<1.0	<1.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.155 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<1.0	<1.0	<50.0 C3	0.263 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	0.421 B J	<1.00	<1.00	<5.00	
	11/17/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
MW-28-D1	06/24/2016	< 1.0	2.3 J	< 5.0	< 5.0	45	2.1	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	
	07/28/2016	< 10	< 100	< 50	< 50	280	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	8.9	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	2.7 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 4.0	< 40	< 20	< 20	< 40	3.7 J	< 4.0	< 4.0	< 4.0	4.9	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	9.3 J	5.6	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	2.4	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/05/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	11.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	17.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<10.0	<1.0	<1.0	<50.0	9.35	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00 J4	<5.00	
	08/19/2020	<1.00 J4	<1.0	<1.0	<1.0	<50.0	5.03	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	11/06/2020	<1.00	<1.0	<1.0	<1.0	<50.0	24.3	<1.00	<1.00 C3	<5.00 C3	<1.00	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<1.0	<1.0	<50.0 C3	4.45	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	5.94	<1.00	<1.00 C3	<5.00	6.60	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<1.0	<1.0	<1.0	<50.0 C3	6.10	<1.00	<1.00	<5.00	1.38	<1.00	<1.00	<5.00	
MW-28-D2R	06/24/2016	< 1.0	< 10	< 5.0	< 5.0	3.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	07/28/2016	< 1.0	< 10	< 5.0	< 5.0	4.4 J	< 1.0	1.2	5.6	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/11/2017	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.95 J	< 1.0	< 1.0	< 1.0	
	07/13/2018	< 4.0	< 40	< 20	< 20	< 40	< 4.0	< 4.0	< 4.0	< 4.0	1.0 J	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 50	< 10	< 10	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/09/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.50 J	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		1,4-Dichloro-benzene	2-Butanone (Methyl ethyl ketone)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromoform	Bromomethane (Methyl bromide)	Carbon disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	
NYSDEC TOGS 1.1.1		3	50	50	NE	50	1	50	50	5	60	5	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.781 J	<1.00	<1.00 J4	<5.00	
	08/19/2020	<1.00 J4	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.404 J	<1.00	<1.00	<5.00	
	11/06/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00 C3	<5.00 C3	0.424 J	<1.00	<1.00	<5.00	
	03/20/2021	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.102 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	<10.0	<50.0 C3	0.174 BJ	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00 C3	<5.00	1.48 B	<1.00	<1.00	<5.00	
	11/16/2021	<1.00	<10.0	<10.0	<10.0	<50.0 C3	<1.00	<1.00	<1.00	<5.00	1.57	<1.00	<1.00	<5.00	
	01/14/2016	< 5.0	< 50	< 25	< 25	25 J	81	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
MW-29-D1	06/21/2016	< 1.0	< 10	< 5.0	< 5.0	9.5 J	6.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	5.5	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 20	< 10	< 10	< 20	9.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 20	< 10	< 10	< 20	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	10/12/2017	< 4.0	< 40	< 20	< 20	< 40	4.3	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	07/13/2018	< 4.0	< 40	9.1 J	< 20	< 40	5.2	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 50	< 10	< 10	< 25	3.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	05/10/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	9.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/10/2020	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.307 J	<1.00	<1.00 J4	<5.00	
	08/19/2020	<1.00 J4	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	11/06/2020	<1.00	<10.0	<10.0	<10.0	<50.0	0.110 J	<1.00	<1.00 C3	<5.00 C3	0.364 J	<1.00	<1.00	<5.00	
	03/20/2021	<1.00	<10.0	<10.0	0.488 J	<50.0	<1.00	<1.00	<1.00	<5.00	0.130 J	<1.00	<1.00	<5.00	
	06/02/2021	<1.00	<10.0 C3	<10.0	0.628 J	<50.0 C3	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	
	08/12/2021	<1.00	<10.0	<10.0	<10.0	<50.0	<1.00	<1.00	<1.00	<5.00	0.412 J	<1.00	<1.00	<5.00	
	01/14/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	
MW-29-VD	01/14/2016	< 10	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	06/21/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-D1	01/14/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	
MW-30-D2	01/14/2016	< 5.0	< 50	< 25	< 25	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	01/14/2016	< 2.0	< 20	< 10	< 10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-30-VD	01/14/2016	< 10	< 100	< 50	< 50	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	5.9 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D1R	01/14/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	11	1.1	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	
MW-31-D2R	01/14/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 10	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0	24	< 13	32.0	5.4	< 5.0	< 5.0
AMW-13-D1	06/24/2016	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 2.5	< 2.5	10	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	1.8	< 1.0	< 2.5	63 F1	< 1.0	< 1.0	< 1.0
AMW-13-D2	06/23/2016	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	3.5	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	< 2.5	41	< 1.0	< 1.0	< 1.0
AMW-13-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 2.5	5	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	3.4	< 1.0	< 1.0	< 1.0
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	< 1.0	< 2.5	12	< 1.0	< 1.0	< 1.0
	07/26/2016	< 1.0	< 1.0	1	< 1.0	1.9	< 1.0	< 1.0	3.6	< 1.0	< 2.5	140 E	0.97 J	< 1.0	< 1.0
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	170	< 4.0	< 4.0	< 4.0
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	170	< 4.0	< 4.0	< 4.0
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	3	< 2.0	< 2.0	7.2	< 2.0	< 5.0	170	2.4	0.95 J	< 2.0
	07/12/2018	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	7.5 J	< 8.0	< 20	160	1.7 J	< 8.0	< 8.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1	< 1.0	< 10	120	0.40 J	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	5.9	1.0	< 5.0	250	3.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 5.0	50	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 5.0	94	0.74 J	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	0.3 J	< 1.0 *	0.88 J	< 1.0 *	< 1.0	2.7	0.44 J	< 5.0	130	1.2	< 1.0	< 1.0
	06/10/2020	< 5.00	< 2.50	0.427 J	< 1.00	< 1.00	< 1.00	< 5.00	0.486 J	0.172 J	< 20.0	37.6	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	6.29	1.08	< 20.0	181	3.18	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	0.221 J	< 1.00	2.02	< 1.00	< 5.00	6.53	1.18	< 20.0	190	3.97	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50 C3	0.214 J	< 1.00	1.33	< 1.00	< 5.00	3.34	0.698 J	< 20.0	53.9	1.86	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	0.144 J	< 1.00	2.30 C5J4	< 1.00	< 5.00	6.68	1.26	< 20.0 C3	164	5.18	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50 J4	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	5.46	0.901 J	< 20.0	140	3.53	< 5.00	< 1.00
	11/16/2021	< 5.00	< 2.50	0.227 J	< 1.00	1.16	< 1.00	< 5.00	2.18	0.516 J	< 20.0	55.8	< 1.00	< 5.00	< 1.00
AMW-14-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	< 2.5	3.1	< 1.0	< 1.0	< 1.0
	07/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	< 1.0	< 1.0	< 1.0	< 2.5	24	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.58 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	14	0.27 J	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	48	< 1.0	< 1.0	< 1.0
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	62	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	44	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	33	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	37	< 1.0	0.59 J	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	29	< 1.0	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	36	< 1.0	< 1.0	< 1.0
	06/10/2020	< 50.0	< 25.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200	33.2	< 10.0	< 50.0	< 10.0
	08/19/2020	< 50.0	< 25.0	2.50 J	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 200	32.0	< 10.0	< 50.0	< 10.0
	11/05/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	31.1	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50 C3	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	20.8	< 1.00	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	0.244 J	< 1.00	0.201 JJ4	< 1.00	< 5.00	0.138 B J	< 1.00	< 20.0 C3	20.7	< 1.00	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	26.3	< 1.00	< 5.00	< 1.00
	11/16/2021	< 5.00	< 2.50	< 1.00	< 1.00	0.585 J	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	23.6	< 1.00	< 5.00	< 1.00
AMW-14-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	2	< 1.0	< 1.0	< 1.0	< 2.5	0.91 J	0.36 J	< 1.0	< 1.0
	07/27/2016	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.59 J	< 1.0	< 1.0	< 1.0
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.51 J	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.42 J	< 1.0	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.65 J	0.58 J	< 1.0	< 1.0
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.49 J	< 1.0	< 1.0	< 1.0

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics													
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	2.4	< 1.0	< 1.0	< 1.0
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	2.6	< 1.0	< 1.0	< 1.0
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	23	< 1.0	< 1.0	< 1.0
	08/27/2017	< 4.0	< 4.0	19	< 4.0	< 4.0	< 4.0	< 4.0	3.4 J	< 4.0	< 10	64	< 4.0	2.4 J	< 4.0
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
	07/13/2018	< 2.0	< 2.0	3.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	22	< 2.0	< 2.0	< 2.0
	10/17/2018	< 1.0	< 1.0	0.44 J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	10	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	16	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	14	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	7.7	< 1.0	0.32 J	< 1.0
	02/11/2020	< 1.0	< 1.0	0.99 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	51	< 5.0	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00 J4	< 1.00 J4	< 20.0	10.1	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	1.73	< 1.00	< 1.00	< 1.00	< 5.00	0.161 J	< 1.00	< 20.0	72.8	< 1.00	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	0.951 J	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	80.6	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50	13.0	< 1.00	0.672 J	< 1.00	< 5.00	1.97	0.672 J	< 20.0	63.6	< 1.00	< 5.00	0.147 J
	06/01/2021	< 5.00	< 2.50 C3	3.81	< 1.00	0.193 J J4	< 1.00	< 5.00	0.562 B J	0.155 J	< 20.0 C3	69.7	< 1.00	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50	14.3	< 1.00	0.639 J	< 1.00	< 5.00	2.22 B	0.564 J	< 20.0	68.5	< 1.00	< 5.00	< 1.00
	11/16/2021	< 5.00	< 2.50	12.1	< 1.00	0.861 J	< 1.00	< 5.00	1.57	0.435 J	< 20.0	61.7	< 1.00	< 5.00	< 1.00
AMW-15-VD	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	1.1	< 1.0	< 1.0	< 1.0
	07/27/2016	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	1.2	< 1.0	< 1.0	< 1.0
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.94 J	< 1.0	< 1.0	< 1.0
	07/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.44 J	< 1.0	< 1.0	< 1.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	1.3	< 5.0	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	1.0	< 1.0	< 1.0	< 1.0
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.1	< 1.0	< 1.0	< 1.0
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.1	< 1.0	< 1.0	< 1.0
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	1.0	< 1.0	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00 J4	< 1.00 J4	< 20.0	0.856 J	< 1.00	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.684 J	< 1.00	< 5.00	< 1.00
	11/04/2020	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.581 J	< 1.00	< 5.00	< 1.00
	03/19/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.437 J	< 1.00	< 5.00	< 1.00
	06/02/2021	< 5.00	< 2.50 C3	< 1.00	< 1.00	< 1.00 J4	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0 C3	0.376 J	< 1.00	< 5.00	< 1.00
	08/12/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	< 1.00	< 1.00	< 5.00	< 1.00
	11/16/2021	< 5.00	< 2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 20.0	0.562 J	< 1.00	< 5.00	< 1.00
AMW-3	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	57	< 5.0	< 5.0	29	65	< 13	< 5.0	27	15	< 5.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.40 J	< 1.0	< 1.0	< 1.0
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	1.4 J	1.5 J	< 5.0	< 5.0
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	18	< 1.0	< 1.0	< 1.0	2.8	< 2.5	0.23 J	9.4	< 1.0	< 1.0
	07/11/2018	< 2.0	< 2.0	< 2.0	< 2.0	16	< 2.0	< 2.0	< 2.0	7.1	< 5.0	< 2.0	29	1.1 J	< 2.0
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	29	< 1.0	< 1.0	0.19 J	4.9	< 10	< 1.0	50	< 5.0	< 1.0
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	19	< 1.0	< 1.0	0.39 J	4.2	< 5.0	< 1.0	31	< 1.0	< 1.0
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	4.4	< 5.0	< 1.0	29	0.53 J	< 1.0
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	0.49 J	1.9	< 5.0	< 1.0	7.7	< 1.0	< 1.0
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	17	< 1.0	< 1.0	0.49 J	3.9	< 5.0	< 1.0	24	< 1.0	< 1.0
	06/09/2020	< 5.00	< 2.50	< 1.00	< 1.00	13.5	< 1.00	< 5.00	0.805 J	4	< 20.0	< 1.00	14.9	< 5.00	< 1.00
	08/19/2020	< 5.00	< 2.50	< 1.00	< 1.00	14.6	< 1.00	< 5.00	0.331 J	3.11	< 20.0	< 1.00	25.1	< 5.00	< 1.00
	11/06/2020	< 5.00	< 2.50	< 1.00	< 1.00	11.6	< 1.00	< 5.00	< 1.00	3.27	< 20.0	< 1.00	18.9	< 5.00	< 1.00

Table 3

Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<5.00	<2.50	<1.00	<1.00	2.77	<1.00	<5.00	<1.00	0.968 J	<20.0	<1.00	7.03	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	11.9 C5 J4	<1.00	<5.00	0.892 B J	2.37	<20.0 C3	<1.00	12.6	<5.00	<1.00	
	08/12/2021	<5.00	<2.50	<1.00	<1.00	4.00	<1.00	<5.00	<1.00	1.31	<20.0	<1.00	6.97	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	4.88	<1.00	<5.00	<1.00	1.62	<20.0	<1.00	<1.00	<5.00	<1.00	
ASB-2	06/06/2016	14	< 1.0	5.6	< 1.0	< 1.0	0.35 J	< 1.0	< 1.0	< 1.0	< 2.5	55	< 1.0	< 1.0	< 1.0	
ASB-3	06/08/2016	0.92 J	< 1.0	2.8	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 2.5	8.5	< 1.0	0.60 J	< 1.0	
ASB-4	06/07/2016	< 5.0	< 5.0	1600 E	< 5.0	5	< 5.0	< 5.0	6.7	< 5.0	< 13	13	4.5 J	330	< 5.0	
ASB-5	06/02/2016	19	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	4.6	< 1.0	< 1.0	< 1.0	
ASB-7	06/02/2016	21	< 2.0	67	< 2.0	< 2.0	0.65 J	< 2.0	< 2.0	< 2.0	< 5.0	5.5	< 2.0	< 2.0	< 2.0	
MW-18R	06/22/2016	< 10	< 10	14	< 10	20	< 10	< 10	< 10	14	< 25	65	4.4 J	< 10	< 10	
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50	11 J	5.1 J	< 20	< 20	
	10/17/2018	< 5.0	< 5.0	< 5.0	< 5.0	8.3 J	< 5.0	< 5.0	1.2 J	6.8	< 50	28	6.2 J	< 25	< 5.0	
	09/14/2019	< 1.0	< 1.0	0.38 J	< 1.0	6.7	< 1.0	< 1.0	1.4	7.4	< 5.0	40	5.6	0.68 J	< 1.0	
	12/05/2019	< 1.0	< 1.0	0.28 J	< 1.0	7.2	< 1.0	< 1.0	1.6	4.8	< 5.0	14	3.3	0.62 J	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	0.66 J	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0	< 1.0	0.56 J	< 1.0	< 1.0	
	06/09/2020	<25.0	<12.5	<5.00	<5.00	2.51 J	<5.00	<25.0	1.27 J	4.03 J	<100	3.42 J	<5.00	<25.0	<5.00	
	03/19/2021	<5.00	<2.50	0.268 J	<1.00	4.84	<1.00	<5.00	0.672 J	3.93	1.31 J	0.765 J	5.86	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	1.44 C5 J4	<1.00	<5.00	0.274 B J	1.11	<20.0 C3	1.06	1.01	<5.00	<1.00	
	08/12/2021	<5.00	<2.50 J4	<1.00	<1.00	3.32	<1.00	<5.00	0.916 J	3.61	<20.0	8.58	3.73	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	0.357 J	<1.00	6.05	<1.00	<5.00	1.35	5.95	<20.0	26.5	5.60	<5.00	<1.00	
	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	0.40 J	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	140	< 2.0	< 2.0	< 2.0	
	10/26/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	180	< 5.0	< 5.0	< 5.0	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	210	< 5.0	< 5.0	< 5.0	
MW-23-D1R	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	30	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	140	< 4.0	< 4.0	< 4.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	130	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	150	< 4.0	< 4.0	< 4.0	
	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	91	< 4.0	< 4.0	< 4.0	
	10/17/2018	< 1.0	< 1.0	1.7	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	0.56 J	< 10	94	< 5.0	< 5.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 5.0	92	< 1.0	0.53 J	< 1.0	
	12/05/2019	< 1.0	< 1.0	0.72 J	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	0.44 J	< 5.0	83	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	0.35 J	< 1.0 *	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 5.0	35	< 1.0	< 1.0	< 1.0	
	06/10/2020	<5.00	<2.50	0.382 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.439 J	<20.0	106	<1.00	<5.00	<1.00	
	08/19/2020	<5.00	<2.50	0.517 J	<1.00	0.267 J	<1.00	<5.00	<1.00	0.414 J	<20.0	85.5	<1.00	<5.00	<1.00	
	11/05/2020	<5.00	<2.50	0.267 J	<1.00	0.259 J	<1.00	<5.00	<1.00	0.314 J	<20.0	98.5	<1.00	<5.00	<1.00	
	03/19/2021	<5.00	<2.50	0.196 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.163 J	<20.0	38.7	<1.00	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	0.245 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	0.141 J	<20.0 C3	39.0	<1.00	<5.00	<1.00	
MW-23-D2R	08/12/2021	<5.00	<2.50	0.388 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.312 J	<20.0	106	<1.00	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	0.529 J	<1.00	<1.00	<1.00	<5.00	<1.00	0.368 J	<20.0	95.3	<1.00	<5.00	<1.00	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	130	< 5.0	< 5.0	< 5.0	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	26	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	8	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	72	< 4.0	< 4.0	< 4.0	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	150 E	< 1.0	< 1.0	< 1.0	
	07/12/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	8.8	<1.0	<1.0	<1.0	
	05/09/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0	< 1.0	< 5.0	8.8	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	63	< 1.0	0.47 J	< 1.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	14	< 1.0	< 1.0	< 1.0	
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	42.2	<1.00	<5.00	<1.00	
	11/05/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	71.1	<1.00	<5.00	<1.00	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-24-VDR (cont.)	08/18/2020	<5.00	<2.50	0.140 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	1.16	<1.00	<5.00	<1.00	
	11/05/2020	<5.00	<2.50	0.218 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.944 J	<1.00	<5.00	<1.00	
	03/19/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	1.01	<1.00	<5.00	<1.00	
	06/01/2021	<5.00	<2.50 C3	0.141 J	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	0.782 J	<1.00	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.249 J	<1.00	<5.00	<1.00	
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	380	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 10	340	< 4.0	< 4.0	< 4.0	
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	310	< 10	< 10	< 10	
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	3.0 J	< 4.0	< 10	390	< 4.0	3.6 J	< 4.0	
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	290	< 10	< 10	< 10	
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 25	240	< 10	< 10	< 10	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.5	< 2.0	< 5.0	220 E	< 2.0	< 2.0	< 2.0	
	10/17/2018	< 1.0	< 1.0	0.42 J	< 1.0	< 5.0	< 1.0	< 1.0	0.95 J	0.43 J	< 10	110	< 5.0	< 5.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	1.8	0.73 J	< 5.0	86	< 1.0	< 1.0	< 1.0	
	12/06/2019	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.56 J	< 5.0	77	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	1.2	< 1.0 *	< 1.0	< 1.0 *	< 1.0	1.3	0.67 J	< 5.0	80	< 1.0	< 1.0	< 1.0	
	06/10/2020	<5.00	<2.50	3.28	<1.00	<1.00	<1.00	<5.00	2.47	1.06	<20.0	115	<1.00	<5.00	<1.00	
	08/19/2020	<5.00	<2.50	1.45	<1.00	<1.00	<1.00	<5.00	1.38	0.555 J	<20.0	97.4	<1.00	<5.00	<1.00	
	11/06/2020	<5.00	<2.50	0.903 J	<1.00	0.189 J	<1.00	<5.00	1.05	0.459 J	<20.0	84.1	<1.00	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	0.486 J	<1.00	0.191 J J4	<1.00	<5.00	1.99	0.628 J	<20.0 C3	105	<1.00	<5.00	<1.00	
	08/12/2021	<5.00	<2.50 J4	0.236 J	<1.00	0.276 J	<1.00	<5.00	0.973 J	0.250 J	<20.0	67.5	<1.00	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	0.947 J	0.509 J	<20.0	75.6	<1.00	<5.00	<1.00	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	< 5.0	< 5.0	< 5.0	< 5.0	
	06/22/2016	< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	59	< 1.0	< 1.0	< 1.0	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	85	< 2.0	15	< 2.0	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	43	< 2.0	81	< 2.0	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 20	< 8.0	< 8.0	< 8.0	< 8.0	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	14	< 1.0	< 1.0	< 1.0	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.39 J	< 1.0	< 10	76	< 5.0	< 5.0	< 1.0	
	05/09/2019	< 1.0	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	0.44 J	< 1.0	< 5.0	84	< 1.0	< 1.0	< 1.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	60	< 1.0	0.44 J	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	29	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	0.37 J	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	52	< 1.0	< 1.0	< 1.0	
	06/10/2020	<5.00	<2.50	0.254 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	105	<1.00	<5.00	<1.00	
	08/19/2020	<5.00	<2.50	0.398 J	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	64.4	<1.00	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00	
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.96 J	< 1.0	< 1.0	< 1.0	
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	< 5.0	< 5.0	< 5.0	< 5.0	
	06/21/2016	< 1.0	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	10	< 1.0	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	84	< 2.0	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	3.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	100	< 2.0	0.94 J	< 2.0	
	07/13/2018	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	62	< 2.0	< 2.0	< 2.0	
	10/18/2018	< 1.0	< 1.0	1	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	38	< 5.0	< 5.0	< 1.0	
	05/10/2019	< 1.0	< 1.0	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	18	< 1.0	< 1.0	< 1.0	
MW-27-D1R	09/14/2019	< 1.0	< 1.0	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 5.0	33	< 1.0	< 1.0	< 1.0	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics														
		Chloroform	Chloromethane (Methyl chloride)	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Cyclohexane	Dibromo-chloro-methane	Dichloro-difluoromethane (Freon 12)	Ethylbenzene	Isopropyl-benzene	Methyl acetate	Methyl-t-butyl ether	Methyl-cyclohexane	Methylene chloride (Dichloro-methane)	Styrene	
NYSDEC TOGS 1.1.1		7	5	5	0.4	NE	50	5	5	5	NE	10	NE	5	5	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	
	06/09/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<1.00 J4	<20.0	<1.00	<1.00	<5.00	<1.00	
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00	
	11/06/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	0.108 J	<1.00	<5.00	<1.00	
	03/20/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	<1.00	<1.00	<5.00	<1.00	
	08/12/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00	
	11/16/2021	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	<1.00	<1.00	<5.00	<1.00	
	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	13	< 5.0	< 5.0	< 5.0	24	< 13	34	5.5	< 5.0	< 5.0	
MW-29-D1	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	8	< 1.0	< 1.0	< 1.0	5.4	< 2.5	23	3.8	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	21	< 1.0	< 1.0	< 1.0	16	< 2.5	44	10	< 1.0	< 1.0	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	11	< 1.0	< 1.0	< 1.0	6.4	< 2.5	23	2.5	< 1.0	< 1.0	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	7.6	< 2.0	< 2.0	< 2.0	7.7	< 5.0	71	1.8 J	< 2.0	< 2.0	
	08/27/2017	< 2.0	< 2.0	< 2.0	< 2.0	12	< 2.0	< 2.0	< 2.0	9.3	< 5.0	28	5.8	< 2.0	< 2.0	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	5.4	< 4.0	< 4.0	< 4.0	5.8	< 10	20	1.5 J	< 4.0	< 4.0	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	24	< 4.0	< 4.0	< 4.0	19	< 10	39	11	< 4.0	< 4.0	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	20	< 1.0	< 1.0	0.31 J	16	< 10	33	11	< 5.0	< 1.0	
	05/10/2019	< 1.0	< 1.0*	< 1.0	< 1.0	24	< 1.0	< 1.0*	0.34 J	18	< 5.0	51	8.6	< 1.0	< 1.0	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	2.2	< 5.0	18	1.2	0.48 J	< 1.0	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	12	< 1.0	< 1.0	< 1.0	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0 *	< 1.0	< 1.0 *	< 1.0	< 1.0	< 1.0	< 5.0	3.1	< 1.0	< 1.0	< 1.0	
	06/10/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	0.107 J	<20.0	22.7	<1.00	<5.00	<1.00	
	08/19/2020	<5.00	<2.50	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<20.0	29.5	<1.00	<5.00	<1.00	
	11/06/2020	<5.00	<2.50	<1.00	<1.00	0.536 J	<1.00	<5.00	<1.00	<1.00	<20.0	28.7	<1.00	<5.00	<1.00	
	03/20/2021	<5.00	<2.50	<1.00	<1.00	0.452 J	<1.00	<5.00	<1.00	<1.00	<20.0	26.4	<1.00	<5.00	<1.00	
	06/02/2021	<5.00	<2.50 C3	<1.00	<1.00	<1.00 J4	<1.00	<5.00	<1.00	<1.00	<20.0 C3	1.76	<1.00	<5.00	<1.00	
	08/12/2021	<5.00	<2.50 J4	<1.00	<1.00	0.556 J	<1.00	<5.00	<1.00	0.105 J	<20.0	20.9	<1.00	<5.00	<1.00	
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	66	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	51	< 1.0	< 1.0	< 1.0	
MW-29-VD	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.42 J	< 1.0	< 1.0	< 1.0	
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	100 E	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	53	< 1.0	< 1.0	< 1.0	
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 13	7.3	< 5.0	< 5.0	< 5.0	
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	8.1	< 2.0	< 2.0	< 2.0	
MW-30-VD	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	3	< 1.0	< 1.0	< 1.0	
	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 10	< 1.0	< 1.0	< 1.0	
MW-31-D1R	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.47 J	< 1.0	< 1.0	< 1.0	
	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.5	0.32 J	< 1.0	< 1.0	< 1.0	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
AMW-12	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
AMW-13-D1	06/24/2016	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.9	< 2.0	NA	NA	NA	NA	
AMW-13-D2	06/23/2016	0.57 J	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
AMW-13-VD	06/23/2016	1.5	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/27/2016	1	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
AMW-14-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 2.0	NA	NA	NA	NA	
	07/26/2016	< 1.0	7.1	7.8	< 1.0	< 1.0	< 1.0	1600 E	11	NA	NA	NA	NA	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	78	3.2 J	130	< 150	< 140	1,100	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	7.6	< 8.0	79	< 330	200 J	550	
	10/11/2017	< 2.0	1.0 J	13	< 2.0	< 2.0	< 2.0	3.2	20	23	< 170	190	580	
	07/12/2018	< 8.0	< 8.0	8.6	< 8.0	< 8.0	< 8.0	< 8.0	16	42	< 660	260 J	2,000	
	10/17/2018	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	32	1.6 J	120 B	< 330	< 310	1,600	
	05/10/2019	< 1.0	0.84 J	11	< 1.0	< 1.0	< 1.0*	2.1	16	73	150 J	440	1,900	
	09/13/2019	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 1.0	9	< 2.0	150	< 83	< 77	3,600	
	12/05/2019	< 1.0	< 1.0	9.0	< 1.0	0.44 J	< 1.0	22	1.8 J	160	13	210	3,800	
	02/12/2020	< 1.0	0.58 J	12.0	< 1.0	0.46 J	< 1.0	40	5.7	100 B	160	690	3,000 B	
	06/10/2020	<1.00	<1.00	3.79	<1.00	0.218 J	<5.00	5.59	0.780 J	43.1 T8	<13.0	86.3	3,200	
	08/19/2020	<1.00	0.465 J	10.8	<1.00	<1.00	<5.00	4.74	4.86	42,500 T8	378	176	3,340	
	11/04/2020	<1.00	0.552 J	12.1	<1.00	0.290 J	<5.00	6.16	3.95	28.2 T8	816	225	5,990	
	03/19/2021	<1.00	0.439 J	14.3	<1.00	0.342 J	<5.00	25.3	3.77	61.8 P1 T8	110	661	5,200	
	06/02/2021	<1.00	0.413 J	16.2	<1.00	0.335 J	<5.00	7.18	3.61	36.4 T8	831	171	6,810	
	08/12/2021	<1.00	0.455 J	22.2	<1.00	<1.00	<5.00	<1.00 J4	3.90	56.1 B T8	437	445	4,350	
	11/16/2021	<1.00	0.313 J	14.6	<1.00	0.369 J	<5.00	10.4	2.95 J	60.8 BT8	14.6	102	777	
AMW-14-D2	06/23/2016	< 1.0	0.81 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/26/2016	< 1.0	0.64 J	0.90 J	< 1.0	< 1.0	< 1.0	3.6	< 2.0	NA	NA	NA	NA	
	07/27/2016	0.38 J	7.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	18	< 83	< 77	210	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 170	< 150	1,200	
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	120	< 330	< 310	970	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	150 B	< 330	< 310	2,200	
	05/10/2019	< 1.0	< 1.0	0.85 J	< 1.0	< 1.0	< 1.0	0.32 J	< 2.0	150	< 330	< 310	1,900	
	09/13/2019	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	0.65 J	< 2.0	160	< 83	< 77	2,600	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 2.0	170	0.74 J	< 3.0	2,200	
	02/12/2020	< 1.0	< 1.0	0.51 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120 B	1.1 J	< 3.0	1,800 B	
	06/10/2020	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	4.00 J	69.7 T8	<13.0	<13.0	2,070	
	08/19/2020	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<30.0	55,800 T8	<13.0	<13.0	1670	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	26.3 T8	<13.0	<13.0	1,970	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	44.6 T8	<13.0	<13.0	1,820	
	06/02/2021	<1.00	<1.00	0.977 J	<1.00	<1.00	<5.00	6.49	<3.00	47.6 T8	<13.0	<13.0	2,330	
AMW-14-VD	08/12/2021	<1.00	<1.00	0.198 J	<1.00	<1.00	<5.00	<1.00	<3.00	91.0 T8	<13.0	<13.0	1,670	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	89.4 T8	<13.0	<13.0	255	
	06/23/2016	0.59 J	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	NA	<13.0	<13.0	1,820	
	07/27/2016	0.41 J	8.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	<13.0	<13.0	1,820	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	<13.0	<13.0	1,820	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	<13.0	<13.0	1,820	
AMW-14-VD	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	82	<13.0	<13.0	1,820	
	07/12/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	< 7.5	< 7.0	27	

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Chevron Facility #6518040
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Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
AMW-14-VD (cont.)	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110 B	< 7.5	< 7.0	24	
	05/10/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	130	<7.5 H	<7.0 H	12 H	
	09/13/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	140	<7.5	<7.0	20	
	12/05/2019	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	130	< 4.0	<3.0	33	
	02/12/2020	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	100 B	< 4.0	< 3.0	28 B	
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	88.9 T8	<13.0	<13.0	467	
	08/20/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	82,100 T8	<13.0	<13.0	26.4	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 T8	<13.0	<13.0	48.6	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	82.5 T8	<13.0	<13.0	51.9	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	99.3 T8	<13.0	<13.0	52.7	
AMW-14-VD	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	148 T8	<13.0	<13.0	61.1	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	112 T8	<13.0	<13.0	18.4	
AMW-15-D1	06/23/2016	0.43 J	3	< 1.0	< 1.0	5.5	< 1.0	70	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 5.0	7.5	< 5.0	< 5.0	73	< 5.0	410	6.5 J	NA	NA	NA	NA	
	10/26/2016	< 10	18	< 10	< 10	48	< 10	600 F1	15 J	NA	NA	NA	NA	
	10/26/2016	< 4.0	6.6	< 4.0	< 4.0	18	< 4.0	240	5.5 J	NA	NA	NA	NA	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	10	< 8.0	110	< 150	< 140	400	
	08/27/2017	< 4.0	17	28	< 4.0	< 4.0	< 4.0	76	17	27	92 J	830	4,000	
	10/11/2017	< 2.0	5.9	13	< 2.0	< 2.0	< 2.0	24	12	34	< 330	470	2,400	
	10/17/2018	< 5.0	1.5 J	21	< 5.0	< 5.0	< 5.0	< 5.0	19	40	< 660	< 620	5,100	
	05/09/2019	< 1.0	< 1.0	7.4	< 1.0	< 1.0	< 1.0*	1.1	6.3	52	<830	<770	3,200	
	09/13/2019	< 1.0	< 1.0	6.7	< 1.0	< 1.0	< 1.0	2	5.1	47	290 J	150 J	4,000	
	12/05/2019	< 1.0	0.43 J	7.1	< 1.0	< 1.0	< 1.0	2.2	5.8	39	490	550	6,200	
	02/11/2020	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	1.6 J	20 B	89	49	700 B	
	06/10/2020	<5.00	<5.00	5.47	<5.00	<5.00	<25.0	<5.00	6.20 J	<20.0 T8	775	165	6,590	
	08/19/2020	<5.00	<5.00	4.20 J	<5.00	<5.00	<25.0	<5.00	2.96 J	<20000 T8	550	27.5	4,380	
	11/04/2020	<1.00	<1.00	2.53	<1.00	<1.00	<5.00	<1.00	1.61 J	<20 T8	722	<13.0	5,200	
	03/19/2021	<5.00	<5.00	5.63	<5.00	<5.00	<25.0	<5.00	5.23 J	23 T8	1,370	90.7	9,900	
	06/02/2021	<1.00	<1.00	1.46	<1.00	<1.00	<5.00	<1.00	1.14 J	<20 T8	298	<13.0	1,970	
	11/16/2021	<1.00	0.392 J	5.81	<1.00	0.265 J	<5.00	<1.00	2.26 J	25.2 BT8	198	<13.0	1,380	
AMW-15-D2	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 2.0	NA	NA	NA	NA	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 2.0	NA	NA	NA	NA	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.7	< 2.0	NA	NA	NA	NA	
	10/26/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	30	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	98	< 150	< 140	430	
	08/27/2017	< 4.0	7.8	5.5	< 4.0	< 4.0	< 4.0	300	12	94	< 170	37 J	880	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	25	< 8.0	68	< 170	< 150	280	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110	< 330	< 310	560	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	<170	<150	520	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 2.0	140	<170	<150	680	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	1.3 J	3 U	800	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	97 B	1.9 J	< 3.0	690 B	
	06/09/2020	<1.00	<1.00	0.209 J	<1.00	<1.00	<5.00	<1.00	0.225 J	39.8 T8	<13.0	<13.0	920	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	46,600 T8	<13.0	<13.0	409	
	11/04/2020	<1.00	<1.00	0.430 J	<1.00	<1.00	<5.00	<1.00	<3.00	21.5 T8	6.37 J	<13.0	809	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	7.82	<3.00	36.2 T8	<13.0	<13.0	19.3	
	06/02/2021	<1.00	<1.00	0.682 J	<1.00	<1.00	<5.00	<1.00	<3.00	<20 T8	<13.0	<13.0	1,100	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	46.8 B T8	<13.0	<13.0	<10.0	
	11/16/2021	<1.00	<1.00	0.367 J	<1.00	<1.00	<5.00	<1.00	<3.00	46 T8	<13.0	<13.0	156	

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Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
AMW-15-D3	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	06/23/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	140	< 4.0	16	17	5.1	< 330	< 310	2,400	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 5	< 170	< 150	610	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	20	< 2.0	< 2.0	< 4.0	7.6	< 330	< 310	1,500	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 3.0	100	< 170	< 150	2,800	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 2.0	140	< 330	< 310	1,600	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 2.0	130	< 170	< 150	1,400	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 4.0	< 3.0	1,400	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	0.57 J	< 2.0	85 B	3.1 J	< 3.0	1,100 B	
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	29.8 T8	<13.0	<13.0	1,340	
	08/19/2020	<1.00	<1.00	0.226 J	<1.00	8.84	<5.00	<1.00	0.376 J	52,200 T8	19.0	<13.0	2,800	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	4.31	<5.00	<1.00	0.174 J	23.4 T8	<13.0	<13.0	2,010	
	03/19/2021	<1.00	2.41	0.435 J	<1.00	51.1	<5.00	7.44	4.59	<20 T8	76.3	6.25 J	6,270	
	06/01/2021	<1.00	0.448 J	0.213 J	<1.00	15.3	<5.00	1.29	0.930 J	<20 T8	36.7	<13.0	4,700	
	08/12/2021	<1.00	2.49	0.533 J	<1.00	56.8	<5.00	4.44	5.08	<20 T8	49.4	<13.0	6,110	
	11/16/2021	<1.00	1.99	0.499 J	<1.00	45.7	<5.00	5.59	3.66	<20 T8	16.5	<13.0	1,910	
AMW-15-VD	06/23/2016	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/27/2016	< 1.0	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	31	< 7.5	< 7.0	24	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3	40	< 7.5	< 7.0	8	
	07/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	41	< 7.5	< 7.0	37	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	37	< 7.5	< 7.0	27	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	17	< 7.5 H	< 7.0 H	25 H	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	49	< 7.5	< 7.0	22	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	22	< 4.0	< 3.0	51	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	11 B	< 4.0	< 3.0	38 B	
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	<20.0 T8	<13.0	<13.0	54.9	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	29,500 T8	<13.0	<13.0	44.9	
	11/04/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 T8	<13.0	<13.0	63.3	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	21.7 T8	<13.0	<13.0	64.5	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	7,310 J T8	<13.0	<13.0	76.2	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	53.2 B T8	<13.0	<13.0	<10.0	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	53.3 T8	<13.0	<13.0	42.7	
AMW-3	01/13/2016	< 5.0	6.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
AMW-7R	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.79 J	NA	NA	NA	NA	
	07/11/2018	< 2.0	1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	82	< 330	< 310	3,500	
	10/17/2018	< 1.0	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	94 B	< 330	< 310	5,800	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3 J	94	< 330 UH	< 310 UH	3,100 H	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	110	< 170	< 150	3,600	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	47	1.6 J	< 3.0	6,200	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	52 B	2.4 J	< 3.0	5,500 B	
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	1.66 J	38.1 T8	<13.0	<13.0	9,370	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.990 J	46.3 T8	<13.0	<13.0	3550	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.241 J	44.3 T8	4.44 J	<13.0	7,880	

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
AMW-7R (cont.)	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	32.1 T8	<13.0	<13.0	7,700	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	2.53 J	36.4 T8	<13.0	<13.0	10,100	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	71.3 T8	<13.0	<13.0	4,930	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	65.1 T8	<13.0	<13.0	2,830	
ASB-2	06/06/2016	1.4	0.87 J	< 1.0	< 1.0	4.4	< 1.0	6	< 2.0	NA	NA	NA	NA	
ASB-3	06/08/2016	1.3	< 1.0	< 1.0	< 1.0	1.2	< 1.0	81	< 2.0	NA	NA	NA	NA	
ASB-4	06/07/2016	6.7	9	13	< 5.0	1500 E	< 5.0	400	36	NA	NA	NA	NA	
ASB-5	06/02/2016	1.2	< 1.0	< 1.0	< 1.0	4.8	< 1.0	11	0.89 J	NA	NA	NA	NA	
ASB-7	06/02/2016	1.2 J	< 2.0	< 2.0	< 2.0	1.7 J	< 2.0	31	< 4.0	NA	NA	NA	NA	
MW-18R	06/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA	
	07/11/2018	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 40	2.2 J	< 660	< 620	3,800	
	10/17/2018	< 5.0	4.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.2 J	11 B	< 660	< 620	9,700	
	09/14/2019	< 1.0	4.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.1	32	< 660	< 620	13,000	
	12/05/2019	< 1.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2	3 J	21	0.81 J	16,000	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	3.9 J B	< 4.0	< 3.0	89	
	06/09/2020	<5.00 J4	3.31 J	<5.00	<5.00	<5.00 J4	<25.0	<5.00	5.52 J	<20.0 T8	8.80 J	<13.0	5,640	
	03/19/2021	<1.00	2.36	<1.00	<1.00	<1.00	<5.00	<1.00	4.41	<20 T8	19	<13.0	8,840	
	06/02/2021	<1.00	0.979 J	<1.00	<1.00	<1.00	<5.00	<1.00	1.50 J	<20 T8	<13.0	<13.0	5,700	
	08/12/2021	<1.00	3.92	<1.00	<1.00	<1.00	<5.00	<1.00 J4	5.64	42.3 B T8	13.5	<13.0	12,300	
	11/16/2021	<1.00	3.83	<1.00	<1.00	<1.00	<5.00	<1.00	7.81	30.8 BT8	<13.0	<13.0	2,660	
	10/26/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA	
	10/26/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
MW-23-D1R	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	82	< 150	< 140	150	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	75	< 83	< 77	1,500	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	55	< 170	< 150	1,300	
	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	64	< 330	< 310	4,800	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1	< 3.0	63	< 660	< 620	3,600	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	< 2.0	68	< 83	< 77	1,400	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	660	8.2	< 3.0	2,100	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	10 B	3.3 J	< 3.0	770 B	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.190 J	29.6 T8	6.78 J	<13.0	1,560	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	41,200 T8	6.95 J	<13.1	1,780	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	23.9 T8	7.51 J	<13.0	2,040	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	29.3 T8	<13.0	<13.0	303	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	22.3 T8	<13.0	<13.0	876	
MW-23-D2R	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	30.8 B T8	<13.0	<13.0	944	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	39.1 BT8	<13.0	<13.0	225	
	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	06/20/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 38	< 35	73	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	110	< 83	< 77	360	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 2.0	100	< 170	< 150	200	
	07/12/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	32	< 170	< 150	290	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	32	< 170	< 150	290	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	140	< 170	< 150	700	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	69	2.9 J	< 3.0	1,500	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	54,100 T8	<13.0	<13.0	1,190	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	32.6 T8	<13.0	<13.0	1,020	

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
MW-23-D2R (cont.)	03/18/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	53.5 T8	<13.0	<13.0	61	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	61.5 T8	<13.0	<13.0	878	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	35.9 B T8	<13.0	<13.0	1,070	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	72 T8	<13.0	<13.0	421	
MW-24-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	99	< 10	NA	NA	NA	NA	
	06/21/2016	< 4.0	< 4.0	11	< 4.0	< 4.0	< 4.0	35	9.3	NA	NA	NA	NA	
	10/26/2016	< 1.0	0.68 J	6.5	< 1.0	< 1.0	< 1.0	33	7.2	NA	NA	NA	NA	
	10/26/2016	< 1.0	0.64 J	6.8	< 1.0	< 1.0	< 1.0	15	6.6	NA	NA	NA	NA	
	10/26/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	NA	NA	NA	NA	
	07/12/2018	< 8.0	23	22	< 8.0	< 8.0	< 8.0	160	29	67	130 J	1,100	5,900	
	10/16/2018	< 5.0	17	12	< 5.0	< 5.0	< 5.0	22	25	59	< 660	550 J	6,000	
	05/09/2019	< 1.0	1.5	2.0	< 1.0	< 1.0	< 1.0	1.5	3.6	98	< 330	< 310	1,600	
	09/13/2019	< 1.0 [1.0]	7.2 [6.4]	[15]	< 1.0 [1.0]	< 1.0 [1.0]	< 1.0 [1.0]	8.0 [9.2]	33 [30]	36 [51]	750 [730]	100 J [99 J]	7,300 [7,700]	
	12/05/2019	< 1.0 [1.0]	1.4 [2.3]	7.0 [16]	< 1.0 [1.0]	< 1.0 [1.0]	< 1.0 [1.0]	3.4 [5.4]	11 [29]	30 [60]	320 [880]	88 [280]	2,400 [8,400]	
	02/11/2020	< 1.0 [1.0]	0.9 J [2.5]	9.5 [14]	< 1.0 [1.0]	< 1.0 [1.0]	< 1.0 [1.0]	2.3 [7.9]	24 [37]	57 B [57 B]	520 [520]	110 [270]	4,500 B [5900]	
	06/09/2020	<5.00 [5.00]	1.62 J [5.00]	12.2 [13.8]	<5.00 [5.00]	<5.00 [5.00]	<25.0 [25.0]	2.86 J [5.00]	31.1 [34.4]	47.8 T8 [38.3 T8]	419 [549]	230 [147]	5,930 [6,460]	
	08/19/2020	<5.00 [5.00]	<5.00 [5.00]	12.9 [13.2]	<5.00	<5.00 [5.00]	<25.0 [25.0]	<5.00 [5.00]	26.9 [26.3]	47,000 T8 [46,300 T8]	589 [566]	116 [111]	6,530 [6,280]	
	11/05/2020	<5.00 [5.00]	<5.00 [5.00]	12.8 [9.50]	<5.00 [5.00]	<5.00 [5.00]	<25.0 [25.0]	<5.00 [5.00]	24.1 [18.6]	57.2 T8 [48.7 T8]	794 [609]	274 [219]	12,600 [9,970]	
	03/19/2021	<1.00 [5.00]	1.42 [5.00]	12.6 [11.4]	<1.00 [5.00]	<1.00 [5.00]	<5.00 [25.0]	<1.00 [5.00]	23.8 [22.7]	<20 T8 [38 T8]	647 [752]	209 [219]	10,400 [11,100]	
	06/01/2021	<1.00 [5.00]	0.944 J [5.00]	12.9 [10.5]	<1.00 [5.00]	0.214 J [5.00]	<5.00 [25.0 C3]	1.06 [2.21 C3 J]	20.2 [18.0]	38.9 T8 [26.2 T8]	480 [451]	145 [139]	7,940 [6,890]	
	11/16/2021	<1.00 [1.00]	0.583 J [0.620 J]	10.9 [9.11]	<1.00 [1.00]	<1.00 [1.00]	<5.00 [5.00]	<1.00 [1.00]	12.6 [12.3]	<20 B J T8 [32.3 B T8]	70.5 [78.5]	20.2 [21.8]	1,280 [1,390]	
MW-24-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	180	< 10	NA	NA	NA	NA	
	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	170	< 10	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	0.98 J	< 1.0	< 1.0	< 1.0	38	< 2.0	NA	NA	NA	NA	
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0	NA	NA	NA	NA	
	10/25/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	280 F1	< 10	NA	NA	NA	NA	
	07/05/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	250 F1	< 16	130	< 150	< 140	130	
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	72	< 16	110	< 170	< 150	980	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	18	< 4.0	54	< 170	< 150	410	
	07/12/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	15	< 7.5	< 7.0	44	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 3.0	5.7	< 170	< 150	370	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	5.0	< 7.5	< 7.0	< 4.0	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	15.0	< 7.5	< 7.0	< 4.0	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	26	1.5 J	0.57 J	270	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	8 B	2.7 J	< 3.0	210 B	
	06/09/2020	<1.00 J4	<1.00	0.716 J	<1.00	<1.00 J4	<5.00	0.269 J	<3.00	<20.0 T8	25.3	<13.0	2,180	
	08/18/2020	<1.00	<1.00	0.359 J	<1.00	<1.00	<5.00	<1.00	<3.00	<20,000 T8	13.7	<13.0	1,200	
	11/05/2020	<1.00	<1.00	1.13	<1.00	0.244 J	<5.00	<1.00	<3.00	<20 J T8	57.4	<13.0	5,720	
	03/19/2021	<1.00	<1.00	1.19	<1.00	<1.00	<5.00	<1.00	<3.00	24.7 T8	44.7	<13.0	4,500	
	06/01/2021	<1.00	<1.00	0.720 J	<1.00	<1.00	<5.00	<1.00	<3.00	22.5 T8	24.8	<13.0	1,920	
	11/16/2021	<1.00	<1.00	0.668 J	<1.00	<1.00	<5.00	<1.00	0.180 J	<20 JT8	<13.0	<13.0	1,400	
MW-24-VDR	07/12/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	89	2.1 J	2.3 J	160	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 3.0	79	< 7.5	< 7.0	120	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 2.0	92	< 83	< 77	13 J	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 2.0	92	< 7.5	< 7.0	26	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	3.8 J	< 4.0	1.7 J	28	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	85 B	< 4.0	< 3.0	40 B	
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	57.7 T8	<13.0	<13.0	77.0	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
MW-24-VDR (cont.)	08/18/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	75,500 T8	<13.0	<13.0	55.8	
	11/05/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	28.5 T8	<13.0	<13.0	68.1	
	03/19/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	81.7 T8	<13.0	<13.0	87.1	
	06/01/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	45.7 T8	<13.0	<13.0	56.0	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 JT8	<13.0	<13.0	47.1	
MW-26-D1	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16	< 10	NA	NA	NA	NA	
	06/22/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	20	< 8.0	NA	NA	NA	NA	
	10/25/2016	< 10	< 10	< 10	< 10	< 10	< 10	18	< 20	NA	NA	NA	NA	
	10/25/2016	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	51	< 8.0	NA	NA	NA	NA	
	07/05/2017	< 10	< 10	< 10	< 10	< 10	< 10	28	< 20	120	< 150	< 140	250	
	08/27/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	95	< 170	< 150	1,200	
	10/11/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	10	< 7.5	< 7.0	10	
	07/13/2018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	13	< 4.0	110	< 330	< 310	2,900	
	10/17/2018	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	65 B	< 170	< 150	1,800	
	09/13/2019	< 1.0	0.67 J	1.0	< 1.0	< 1.0	< 1.0	19	< 2.0	79	< 170	< 150	4,100	
	12/06/2019	< 1.0	0.4 J	0.74 J	< 1.0	< 1.0	< 1.0	12	< 2.0	64	5.3	21	2,400	
	02/11/2020	< 1.0	0.46 J	0.92 J	< 1.0	< 1.0	< 1.0	26	< 2.0	45 H B	4.9	21	1,900 B	
	06/10/2020	<1.00	0.516 J	2.36	<1.00	<1.00	<5.00	79.3	1.74 J	72.0 T8	15.0	65.8	3,260	
	08/19/2020	<1.00	<1.00	1.57	<1.00	<1.00	<5.00	39	1.02 J	34,800 T8	7.93 J	23.2	2,030	
	11/06/2020	<1.00	<1.00	1.42	<1.00	<1.00	<5.00	38.8 C5	0.793 J	58.2 T8	12.7 J	39.2	2,820	
	06/02/2021	<1.00	0.685 J	3.67	<1.00	<1.00	<5.00	62.4	2.02 J	69.9 T8	31.9	113	3,910	
	08/12/2021	<1.00	0.326 J	2.54	<1.00	<1.00	<5.00	38.6 C5 J4	1.11 J	46 B T8	25.3	98.1	3,810	
	11/16/2021	<1.00	<1.00	1.65	<1.00	<1.00	<5.00	6.74	1.37 J	53 BT8	7.03 J	8.37 J	872	
MW-26-D2	01/12/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 2.0	NA	NA	NA	NA	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA	
	10/25/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 7.5	< 7.0	76	
	08/27/2017	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 16	110	< 83	< 77	92	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	55	< 170	< 150	670	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	110 B	< 170	< 150	1,100	
	05/09/2019	< 1.0	< 1.0	0.90 J	< 1.0	0.50 J	< 1.0	1.5	< 2.0	130	< 660	< 620	750	
	09/13/2019	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	1.0 U	< 1.0	< 2.0	150	< 83	< 77	1,000	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	140	1.1 J	< 3.0	1,300	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	83 B	0.8 J	< 3.0	710 B	
	06/10/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	0.218 J	57.8 T8	<13.0	<13.0	1,340	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	47.9 T8	<13.0	<13.0	360	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	<20 JT8	<13.0	<13.0	35	
MW-26-VD	01/13/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
MW-27-D1R	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	28	< 4.0	26	< 380	< 350	550	
	08/27/2017	< 2.0	< 2.0	5	< 2.0	< 2.0	< 2.0	110	< 4.0	100	< 170	< 150	1,100	
	07/13/2018	< 2.0	1.6 J	4.1	< 2.0	< 2.0	< 2.0	88	< 4.0	140	< 660	< 620	3,700	
	10/18/2018	< 1.0	1	< 1.0	< 1.0	0.26 J	< 1.0	70	< 3.0	150 B	< 170	< 150	3,900	
	05/10/2019	< 1.0	0.44 J	0.96 J	< 1.0	< 1.0	< 1.0	17	< 2.0	97	< 83	< 77	1,600	
	09/14/2019	< 1.0	1.2	2.3	< 1.0	< 1.0	< 1.0	25	1.2 J	170	< 330	< 310	1,600	

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
MW-27-D1R (cont.)	12/05/2019	< 1.0	1.7	3.6	< 1.0	0.37 J	1.0 U	61	1.6 J	170	5.5	40	2,600	
	08/19/2020	<5.00	<5.00	1.52 J	<5.00	<5.00	<25.0	33.6	1.12 J	55,300 T8	<13.0	19.9	1,530	
	11/06/2020	<5.00	<5.00	2.01 J	<5.00	<5.00	<25.0	26.0 C5	<15.0	83.4 T8	<13.0	27.8	2,010	
	03/20/2021	<1.00	0.450 J	1.82	<1.00	<1.00	<5.00	26.9	0.593 J	56.6 T8	9.14 J	39.4	3,920	
	06/02/2021	<1.00	0.774 J	2.80	<1.00	0.349 J	<5.00	45.5	1.05 J	88.9 T8	<13.0	46.0	2,310	
	08/12/2021	<1.00	0.544 J	1.87	<1.00	0.230 J	<5.00	23.9	0.820 J	103 T8	6.78 J	42.1	2,260	
	11/17/2021	<1.00	1.20	3.89	<1.00	0.355 J	<5.00	43.7	1.67 J	94.5 B T8	<13.0	10.7 J	361	
MW-27-D2	01/13/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	06/21/2016	< 4.0	17	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	68	NA	NA	NA	NA	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	130	< 75	< 70	53	
	08/27/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100	< 83	< 77	180	
	10/12/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	81	< 170	< 150	350	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	140	< 330	< 310	1,500	
	10/18/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	130 B	< 170	< 150	1,200	
	05/10/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	66	< 170	< 150	310	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	150	< 170	< 150	1,200	
	12/05/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	150	< 4.0	< 3.0	1,600	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	110 B	< 4.0	< 3.0	910 B	
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	0.181 J	98.7 T8	<13.0	<13.0	1,100	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	75,400 T8	<13.0	<13.0	876	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	60.9 T8	<13.0	<13.0	408	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	93.9 T8	<13.0	<13.0	907	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	56.2 T8	<13.0	<13.0	794	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	127 T8	<13.0	<13.0	180	
	11/17/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	141 T8	<13.0	<13.0	88.7	
MW-28-D1	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	51	< 150	< 140	290	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	15	< 170	< 150	1,000	
	10/11/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	3.8 J	< 170	< 150	520	
	10/17/2018	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6 J	8.9 B	< 330	< 310	1,500	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	120	< 660	< 620	1,300	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	2.2	160	<170	<150	1,600	
	12/05/2019	< 1.0	0.53 J	0.25 J	< 1.0	< 1.0	< 1.0	0.68 J	1.9 J	75	33	15	2,500	
	02/11/2020	< 1.0	0.62 J	0.35 J	< 1.0	< 1.0	< 1.0	1.7	3	73 B	25	11	1,800 B	
	06/09/2020	<1.00 J4	0.578 J	0.205 J	<1.00	<1.00 J4	<5.00	0.625 J	3.11	26.5 T8	12.2 J	<13.0	1,140	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.02 J	23,000 T8	<13.0	<13.0	361	
	11/06/2020	<1.00	0.497 J	0.362 J	<1.00	<1.00	<5.00	<1.00	4.11	73.8 T8	46.5	<13.0	4,740	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.72 J	35.7 T8	<13.0	<13.0	788	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	1.62 J	41.9 B T8	<13.0	<13.0	1,380	
	11/16/2021	<1.00	<1.00	0.185 J	<1.00	<1.00	<5.00	<1.00	1.75 J	<20 JT8	<13.0	<13.0	249	
MW-28-D2R	06/24/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/28/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	07/05/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	120	< 7.5	< 7.0	67	
	08/27/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	120	< 83	< 77	62	
	10/11/2017	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	91	< 170	< 150	370	
	07/13/2018	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 8.0	91	< 330	< 310	880	
	10/17/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 3.0	140 B	< 170	< 150	240	
	05/09/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	42	< 330	< 310	730	
	09/13/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	160	<7.5	<7.0	620	

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Volatile Organics								GC Volatiles - RSK-175				
		Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Trichloro-ethene (Trichloro-ethylene)	Trichloro-fluoro-methane (Freon 11)	Vinyl Chloride (Chloroethene)	Xylene (total)	Carbon Dioxide	Ethane	Ethene	Methane	
NYSDEC TOGS 1.1.1		5	5	5	0.4	5	5	2	5	NE	NE	NE	NE	
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	
MW-28-D2R (cont.)	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	160	< 4.0	<3.0	310	
	02/11/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	100 B	< 4.0	< 3.0	1,000 B	
	06/09/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	90.0 T8	<13.0	<13.0	239	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	90,300 T8	<13.0	<13.0	212	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	85.8 T8	<13.0	<13.0	618	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	68 T8	<13.0	<13.0	416	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	68.1 T8	<13.0	<13.0	465	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	125 T8	<13.0	<13.0	191	
	11/16/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	136 T8	<13.0	<13.0	83.7	
	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
MW-29-D1	06/21/2016	< 1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	NA	NA	NA	NA	
	10/26/2016	< 1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.7	NA	NA	NA	NA	
	10/26/2016	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4	NA	NA	NA	NA	
	07/05/2017	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.7 J	180	< 300	< 280	680	
	08/27/2017	< 2.0	1.7 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	4.3	150	< 660	< 620	11,000	
	10/12/2017	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	4.3 J	140	< 170	< 150	5,200	
	07/13/2018	< 4.0	3.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	5.5 J	180	< 660	< 620	15,000	
	10/18/2018	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.1	210 B	< 1700	< 1500	19,000	
	05/10/2019	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3	190	< 83	< 77	9,300 E	
	09/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	40	<170	<150	3,200	
	12/06/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	28	1 J	< 3.0	1,100	
	02/12/2020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	15 B	< 4.0	< 3.0	340 B	
	06/10/2020	<1.00 J4	<1.00	<1.00	<1.00	<1.00 J4	<5.00	<1.00	<3.00	53.4 T8	5.33 J	<13.0	10,700	
	08/19/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	39,600 T8	<13.0	<13.0	6,710	
	11/06/2020	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	31.7 T8	10.6 J	<13.0	10,700	
	03/20/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	30.9 T8	9.15 J	<13.0	6,640	
	06/02/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<3.00	27.3 T8	<13.0	<13.0	660	
	08/12/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00 J4	<3.00	51.4 B T8	<13.0	<13.0	4,950	
MW-29-D2	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
MW-29-VD	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA	
	06/21/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
MW-30-D1	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
MW-30-D2	01/14/2016	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	NA	NA	
	01/14/2016	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	NA	NA	NA	NA	
MW-30-VD	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	01/14/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	NA	NA	NA	NA	
MW-31-D1R	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
MW-31-D2R	01/14/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	
	06/22/2016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA	NA	

Table 3

Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-12	01/14/2016	NA	NA	NA	NA	NA	NA
AMW-13-D1	06/24/2016	3,500	510 B	NA	569,000 B	5,69,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-13-D2	06/23/2016	2,700	740 B	NA	1100 B	7,32,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-13-VD	06/23/2016	26,100	1100 B	NA	1100 B	7,32,000 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
AMW-14-D1	06/24/2016	410	370 B	NA	< 140	8,86,000 B	NA
	07/26/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	4,700	48	16,90,000 ^	NA	7,16,000 B	3,060
	08/27/2017	5,200	49 B	1,730,000	NA	5,63,000 B	3,130
	10/11/2017	4,400	48 B	1,590,000	NA	563,000	1,860
	07/12/2018	1,600	14 B	975,000	NA	6,23,000 B	2,970
	10/17/2018	5,000	55 B	1,560,000	NA	673,000	3,620
	05/10/2019	5,780	94.9	1,740,000	NA	805,000	3,700
	09/13/2019	3,630	70.2	1,680,000	NA	779,000	3,000
	12/05/2019	6,940	59	1,100,000	NA	582,000	2,100
	02/12/2020	5,170	41.1	967,000	NA	386,000	2,400
	06/10/2020	1,800	33.3	1,380,000	NA	613,000	2,750
	08/19/2020	8,480	131	1,930,000	NA	678	2,950
	11/04/2020	3,130	22.0	986,000	NA	581,000	3,030
	03/19/2021	12,500	150	1,950,000	NA	808,000	3,950
	06/02/2021	3,040	70.9	1,890,000	NA	719,000	3,180
	08/12/2021	5,080	88.3	2,060,000	NA	637,000	2,480
	11/16/2021	4,560	38.6	1,180,000	NA	674,000	3,010
AMW-14-D2	06/23/2016	6,600	510 B	NA	740 B	7,40,000 B	NA
	07/26/2016	NA	NA	NA	NA	NA	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	34 J	16 B	13,500	NA	4,39,000 B	4,930
	10/11/2017	17,300	760 B	3,260,000	NA	830,000	4,070
	07/12/2018	2,500	78 B	2,210,000	NA	7,85,000 B	4,380
	10/17/2018	2,700	100 B	2,230,000	NA	4,85,000 B	4,510
	05/10/2019	548	80.1	2,080,000	NA	822,000	4,200
	09/13/2019	1,870	86.3	2,070,000	NA	823,000	3,400
	12/05/2019	6,830	135	2,380,000	NA	727,000	4,200
	02/12/2020	5,590	116	1,630,000	NA	810,000	4,500
	06/10/2020	5,070	119	1,990,000	NA	744,000	4,190
	08/19/2020	17,800	340	2,510,000	NA	832	4,380
	11/05/2020	3,290	104	1,950,000	NA	692,000	4,330
	03/19/2021	28,300	506	2,530,000	NA	750,000	5,310
	06/02/2021	4,590	137	2,340,000	NA	473,000	3,020
	08/12/2021	1,450	111	2,410,000	NA	841,000	4,350
	11/16/2021	5,870	145	2,310,000	NA	810,000	4,100
AMW-14-VD	06/23/2016	28,300	506	2,530,000	427	427,000	NA
	07/27/2016	28,300	506	2,530,000	NA	NA	NA
	07/05/2017	28,300	506	2,530,000	NA	4,40,000 B	15,200
	08/27/2017	28,300	506	2,530,000	NA	4,15,000 B	15,400
	10/11/2017	28,300	506	2,530,000	NA	454,000	16,200
	07/12/2018	18,400	410 B	8,660,000	NA	4,72,000 B	19,400

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Table 3

Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Location ID	Date Sampled	Inorganics			General Chemistry			
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride	
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250	
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	
AMW-14-VD (cont.)	10/17/2018	18,500	390 B	9,100,000	NA	4,09,000 B	16,300	
	05/10/2019	14,700	387	71,50,000 B	NA	493,000	110,000	
	09/13/2019	15,200	376	6,810,000	NA	493,000	14,000	
	12/05/2019	18,800	432	8,960,000	NA	493,000	17,000	
	02/12/2020	12,800	339	5,740,000	NA	495,000	15,000	
	06/10/2020	17,600	381	8,070,000	NA	528,000	18,000	
	08/20/2020	16700	389	8,790,000	NA	527	17,000	
	11/05/2020	18,000	396	7,940,000	NA	501,000	17,200	
	03/19/2021	18,500	395	8,320,000	NA	522,000	17,300	
	06/02/2021	18,900	396	8,510,000	NA	542,000	16,100	
	08/12/2021	19,400	393	8,190,000	NA	540,000	16,700	
AMW-14-VD	11/16/2021	20,000	383	8,670,000	NA	448,000	13,500	
AMW-15-D1	06/23/2016	2,200	500 B	NA	602	602,000	NA	
	07/27/2016	NA	NA	NA	NA	NA	NA	
	10/26/2016	1,900 B	70 B	NA	130	130,000	NA	
	10/26/2016	95 B	110 B	NA	528	528,000	NA	
	07/05/2017	2,100	84	17,50,000 ^	NA	597,000	73.2	
	08/27/2017	12,400	170 B	1,520,000	NA	4,71,000 B	2,480	
	10/11/2017	6,900	100 B	17,10,000 ^	NA	641,000	2,760	
	10/17/2018	3,900	320	989,000	NA	442,000	1,910	
	05/09/2019	3,340	335	1,170,000	NA	422,000	2,500	
	09/13/2019	3,740	311	1,160,000	NA	254,000	1,700	
	12/05/2019	3,550	243	1,200,000	NA	424,000	2,000	
	02/11/2020	4,740	303	1,050,000	NA	206,000	1,800	
	06/10/2020	512	150	1,050,000	NA	393,000	2,010	
	08/19/2020	1,320	126	1,460,000	NA	442	1990	
	11/04/2020	800	80.5	1,030,000	NA	425,000	2,250	
	03/19/2021	13,700	113	1,210,000	NA	598,000	2,590	
	06/02/2021	597	55.6	1,040,000	NA	466,000	2,050	
		11/16/2021	612	17.9	1,230,000	NA	494,000	2,140
AMW-15-D2	06/23/2016	110	5.8 B	NA	50 B	1,81,000 B	NA	
	06/23/2016	120	6.3 B	NA	185	185,000	NA	
	07/27/2016	NA	NA	NA	NA	NA	NA	
	10/26/2016	50 B	85 B	NA	99.9	99,900	NA	
	10/26/2016	< 50	98 B	NA	600	600,000	NA	
	07/05/2017	700	110	20,90,000 ^	NA	687,000	3,700	
	08/27/2017	3,500	140 B	2,200,000	NA	6,73,000 B	3,650	
	10/11/2017	4,500	130 B	21,50,000 ^	NA	811,000	3,710 F1	
	10/17/2018	750	55	2,130,000	NA	461,000	3,790	
	05/10/2019	328	72	2,030,000	NA	672,000	4,200	
	09/13/2019	493	54.6	2,030,000	NA	649,000	3,800	
	12/05/2019	739	62.7	1,870,000	NA	636,000	4,000	
	02/11/2020	978	69.9	1,820,000	NA	651,000	4,200	
	06/09/2020	595	75.7	1,580,000	NA	610,000	3,750	
	08/19/2020	10,500	150	2,230,000	NA	413	2410	
	11/04/2020	963	76.6	1,940,000	NA	540,000	4,150	
	03/19/2021	14,800	258	2,220,000	NA	590,000	3,500	
		06/02/2021	10,100	97.9	2,220,000	NA	313,000	935
		08/12/2021	1,850	100	2,010,000	NA	578,000	3,140
		11/16/2021	362	166	1,450,000	NA	490,000	2,990

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-15-D3	06/23/2016	98	250 B	NA	2,980,000 ^	6,17,000 B	NA
	06/23/2016	120	240 B	NA	< 5	12,200 B	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	2,300	450 B	29,80,000 ^	NA	4,08,000 B	4,230
	10/11/2017	450	99 B	25,00,000 ^	NA	508,000	7,530
	07/13/2018	3,100	1,100 B	3,870,000	NA	5,18,000 B	4,670
	10/17/2018	260	200	2,610,000	NA	108,000	7,380
	05/10/2019	301	222	2,730,000	NA	616,000	8,800
	09/13/2019	612	231	2,720,000	NA	646,000	4,400
	12/05/2019	349	97.4	1,550,000	NA	594,000	5,300
	02/11/2020	3,631	106	1,330,000	NA	626,000	2,600
	06/09/2020	1,130	138	1,690,000	NA	676,000	4,630
	08/19/2020	3,030	871	3,930,000	NA	479	8160
	11/04/2020	795	131	1,660,000	NA	649,000	4,790
	03/19/2021	439	484	2,960,000	NA	310,000	3,000
	06/01/2021	657	628	3,350,000	NA	493,000	683
	08/12/2021	92.4 J	1.65 J	462,000	NA	567,000	639
11/16/2021	584	8.71 J	479,000	NA	350,000	621	
AMW-15-VD	06/23/2016	4,200	200 B	NA	303	303,000	NA
	07/27/2016	NA	NA	NA	NA	NA	NA
	08/27/2017	11,800	350 B	8,910,000	NA	135,000 B	16,100
	10/11/2017	11,700	340 B	91,80,000 ^	NA	329,000	16,000
	07/13/2018	10,600	320 B	8,290,000	NA	3,57,000 B	19,200
	10/17/2018	10,700	310	8,770,000	NA	271,000	13,200
	05/10/2019	3,600	287	8,560,000	NA	432,000	18,000
	09/13/2019	7,650	192	5,240,000	NA	429,000	16,000
	12/05/2019	5,150	220	6,360,000	NA	478,000	17,000
	02/11/2020	2,850	157	4,770,000	NA	468,000	15,000
	06/09/2020	5,330	213	6,680,000	NA	517,000	18,000
	08/19/2020	6,080	230	6,370,000	NA	509	17,000
	11/04/2020	4,530	280	8,440,000	NA	523,000	17,300
	03/19/2021	10,200	288	8,660,000	NA	523,000	17,300
	06/02/2021	663	12.8	204,000	NA	238,000	6,130
	08/12/2021	5,030	538	31,600	NA	529,000	16,500
	11/16/2021	13,300	281	8,640,000	NA	507,000	16,700
AMW-3	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	16,200	1,400 B	NA	351	351,000	NA
AMW-7R	01/12/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	170	74 B	NA	2,900 B	1,99,000 B	NA
	07/11/2018	20,000	2,500 B	199,000	NA	8,81,000 B	253
	10/17/2018	12,500	2,900 B	168,000	NA	997,000	192
	05/10/2019	8,080	2,770	105,000	NA	558,000	120 F1
	09/14/2019	6,840	2,770	95,700	NA	651,000	62
	12/06/2019	4,790	1,420	93,300	NA	462,000	80
	02/12/2020	24,900	2,730	86,900	NA	597,000	85
	06/09/2020	16,000	2,270	93,200	NA	516,000	100
	08/19/2020	94900	3080	113,000	NA	656	86.6
	11/06/2020	33,200	3,500	111,000	NA	723,000	78.2

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
AMW-7R (cont.)	03/19/2021	35,500	2,390	234,000	NA	615,000	547
	06/02/2021	21,800	2,160	168,000	NA	514,000	262
	08/12/2021	8,720	2,450	193,000	NA	708,000	181
	11/16/2021	3,360	1,640	108,000	NA	640,000	77
ASB-2	06/06/2016	NA	NA	NA	NA	NA	NA
ASB-3	06/08/2016	NA	NA	NA	NA	NA	NA
ASB-4	06/07/2016	NA	NA	NA	NA	NA	NA
ASB-5	06/02/2016	NA	NA	NA	NA	NA	NA
ASB-7	06/02/2016	NA	NA	NA	NA	NA	NA
MW-18R	06/22/2016	11,500 B	470 B	NA	20,000 B	5,15,000 B	NA
	07/11/2018	1,400	17 B	161,000	NA	1,84,000 B	367
	10/17/2018	450	26 B	193,000	NA	365,000	259
	09/14/2019	11,700	110	310,000	NA	386,000	480
	12/05/2019	3,100	30.8	323,000	NA	225,000	400
	02/12/2020	9,770	49.9	45,100	NA	24,400	77
	06/09/2020	5,240	28.9	204,000	NA	101,000	269
	03/19/2021	1,450	11.7	191,000	NA	131,000	223
	06/02/2021	1,270	18.5	362,000	NA	83,300	835
	08/12/2021	1,250	59.9	609,000	NA	206,000	1,340
	11/16/2021	553	42.6	507,000	NA	199,000	853
MW-23-D1R	10/26/2016	< 50	21 B	NA	555	555,000	NA
	10/26/2016	240 B	670 B	NA	525	525,000	NA
	01/12/2016	NA	NA	NA	NA	NA	NA
	06/20/2016	660	690 B	NA	485	485,000	NA
	07/05/2017	17,100	3,100	11,90,000 ^	NA	500,000	1,970
	08/27/2017	33,900	2200 B	11,90,000 ^	NA	5,12,000 B	2,190
	10/12/2017	3,800	1000 B	12,30,000 ^	NA	562,000	2,270
	07/12/2018	4,300	810 B	1,360,000	NA	4,95,000 B	2,250
	10/17/2018	1,900	930	1,220,000	NA	360,000	2,260
	09/13/2019	1,460	636	971,000	NA	467,000	2,000
	12/05/2019	2,020	852	389,000	NA	309,000	1,300
	02/11/2020	2,650	191	474,000	NA	173,000	730
	06/10/2020	1,430	511	1,240,000	NA	320,000	1,690
	08/19/2020	6,320	1,260	1,300,000	NA	543	2,340
	11/05/2020	3,260	1,050	1,300,000	NA	401,000	2,030
	03/19/2021	105,000	4,350	1,310,000	NA	469,000	2,470
	06/02/2021	5,830	1,660	1,280,000	NA	583,000	2,310
	08/12/2021	2,970	973	1,320,000	NA	516,000	2,330
	11/16/2021	3,070	1,120	770,000	NA	275,000	1,390
MW-23-D2R	01/12/2016	NA	NA	NA	NA	NA	NA
	06/20/2016	40 J	110 B	NA	543	543,000	NA
	07/05/2017	4,400	210	21,90,000 ^	NA	520,000	5,260
	08/27/2017	1,800	170 B	19,30,000 ^	NA	4,34,000 B	5,420
	10/12/2017	2,800	140 B	25,70,000 ^	NA	654,000	4,460
	07/12/2018	1,660	279	1,930,000	NA	587,000	3,800
	05/09/2019	1,660	279	1,930,000	NA	587,000	3,800
	09/13/2019	25,700	2,350	1,600,000	NA	415,000	2,500
	12/05/2019	26,100	2,120	1,410,000	NA	349,000	2,400
	08/19/2020	46,200	290	2,340,000	NA	505	3,710
	11/05/2020	12,700	2,830	1,900,000	NA	398,000	3,730

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Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-23-D2R (cont.)	03/18/2021	8,940	139	2,220,000	NA	667,000	4,360
	06/02/2021	1,520	267	2,010,000	NA	540,000	3,500
	08/12/2021	1,380	1,550	1,560,000	NA	376,000	3,250
	11/16/2021	2,140	1,510	1,710,000	NA	600,000	3,710
MW-24-D1R	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	32 J	60 B	NA	550 J	6,42,000 B	NA
	10/26/2016	< 50	49 B	NA	526	526,000	NA
	10/26/2016	58 B	8.9 B	NA	324	324,000	NA
	10/26/2016	24 J B	59 B	NA	577	577,000	NA
	07/12/2018	10,100	120 B	2,140,000	NA	8,75,000 B	4,220
	10/16/2018	2,900	91	1,070,000	NA	583,000	2,370
	05/09/2019	4,120	79.6	1,720,000	NA	572,000	3,900
	09/13/2019	2,140 [4,060]	32.1 [56.5]	13,20,000 [15,20,000]	NA	4,11,000 [5,88,000]	1,800 [3,000]
	12/05/2019	1,540 [1,410]	40.6 [38.3]	13,40,000 [11,70,000]	NA	3,01,000 [5,14,000]	1,900 [2,000]
	02/11/2020	196 [426]	13.1 J [15]	13,70,000 [15,40,000]	NA	3,78,000 [5,30,000]	2,300 [2,500]
	06/09/2020	1,290 [2,340]	22.6 [40.8]	15,50,000 [16,50,000]	NA	6,03,000 [6,05,000]	2,910 [3,200]
	08/19/2020	674 [819]	9.41 J [14.6]	14,40,000 [14,70,000]	NA	423 [485]	2,360 [2,390]
	11/05/2020	486 [631]	9.69 J [10.4]	1,430,000 [1,420,000]	NA	290,000 [287,000]	2,380 [2,310]
	03/19/2021	415 [4,070]	7.67 J [42.5]	1,430,000 [1,330,000]	NA	461,000 [523,000]	2,640 [2,750]
	06/01/2021	722 [2,570]	12.4 [39.2]	1,480,000 [1,560,000]	NA	475,000 [586,000]	2,730 [2,840]
	11/16/2021	3,390 [15,100]	294 [290]	1,370,000 [1,390,000]	NA [NA]	413,000 [313,000]	2,300 [2,500]
MW-24-D2	01/13/2016	NA	NA	NA	NA	NA	NA
	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	40 J	55 B	NA	298,000 B	7,41,000 B	NA
	10/25/2016	49 J	62	NA	512	512,000	NA
	10/25/2016	< 50	56	NA	759	759,000	NA
	07/05/2017	1,800	88	25,20,000 ^	NA	667,000	4,060
	08/27/2017	6,600	160 B	2,260,000	NA	7,74,000 B	4,100
	10/11/2017	5,500	140 B	23,80,000 ^	NA	804,000	3,720
	07/12/2018	1,100	33 B	94,900	NA	1,14,000 B	182
	10/17/2018	610	32	1,08,000 ^	NA	102,000	201
	05/09/2019	391	7.7 J	100,000	NA	112,000	89
	09/13/2019	2,160	35.6	81,400	NA	108,000	49
	12/05/2019	2,090	58.7	366,000	NA	190,000	550
	02/11/2020	1,450	22.2	349,000	NA	482,000	340
	06/09/2020	380	24.8	471,000	NA	267,000	805
	08/18/2020	436	32.8	518,000	NA	235	728
	11/05/2020	491	36.4	819,000	NA	241,000	724
MW-24-VDR	03/19/2021	1,960	51.9	1,210,000	NA	607,000	2,240
	06/01/2021	1,480	56.0	1,470,000	NA	674,000	2,360
	11/16/2021	556	22.4	453,000	NA	320,000	854
	07/12/2018	37900	910 B	8,960,000	NA	4,54,000 B	16,000
	10/17/2018	26,100	740	8,730,000	NA	416,000	13,100
	05/09/2019	25,200	597	6,100,000	NA	461,000	16,000
	09/13/2019	8,910	235	2,520,000	NA	295,000	7,300
	12/05/2019	36,500	694	9,030,000	NA	446,000	17,000
	02/11/2020	31,500	523	7,000,000	NA	474,000	15,000
	06/09/2020	37,100	454	7,320,000	NA	337,000	13,700

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-24-VDR (cont.)	08/18/2020	44,900	578	8,910,000	NA	332	12,800
	11/05/2020	45,100	588	8,850,000	NA	388,000	15,800
	03/19/2021	63,900	687	8,250,000	NA	459,000	17,300
	06/01/2021	53,700	574	8,160,000	NA	413,000	15,500
	11/16/2021	1,130	7.12 J	47,300	NA	18,900 J	172
MW-26-D1	01/12/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	< 50	35 B	NA	569,000 B	5,69,000 B	NA
	10/25/2016	< 50	25	NA	479	479,000	NA
	10/25/2016	< 50	37	NA	591	591,000	NA
	07/05/2017	230	41	15,70,000 ^	NA	542,000	2,520
	08/27/2017	640	48 B	1,500,000	NA	5,32,000 B	2,530
	10/11/2017	190	75 B	304,000	NA	177,000	483
	07/13/2018	320	35 B	1,640,000	NA	558,000	2,810
	10/17/2018	280	24 B	1,510,000	NA	416,000	2,540
	09/13/2019	93.9 J	19.2	1,400,000	NA	542,000	3,000
	12/06/2019	364	18	1,260,000	NA	405,000	2,000
	02/11/2020	1,080	25.6	1,440,000	NA	405,000	2,100
	06/10/2020	553	21.4	1,300,000	NA	438,000	2,400
	08/19/2020	1,340	31.4	1,370,000	NA	500	2,360
	11/06/2020	554	21.4	1,360,000	NA	387,000	2,340
	06/02/2021	805	28.3	1,320,000	NA	443,000	2,330
	08/12/2021	544	32.9	1,150,000	NA	479,000	2,060
	MW-26-D2	11/16/2021	335	17.9	1,320,000	NA	418,000
01/12/2016		NA	NA	NA	NA	NA	NA
06/22/2016		490 B	700 B	NA	344	344,000	NA
10/25/2016		55	63	NA	NA	NA	NA
10/25/2016		< 50	140	NA	653	653,000	NA
07/05/2017		970	420	39,30,000 ^	NA	348,000	9,010
08/27/2017		970	310 B	3,370,000	NA	379,000	7,980
10/11/2017		1,100	160 B	2,770,000	NA	435,000	8,600
10/17/2018		150	52 B	2,190,000	NA	509,000	3,820
05/09/2019		466	75.2	2,420,000	NA	684,000	5,000
09/13/2019		207	65.6	2,270,000	NA	702,000	4,000
12/06/2019		54.4 J	59.8	2,340,000	NA	628,000	4,000
02/11/2020		348	88.8	2,500,000	NA	588,000	3,900
06/10/2020		84.3 J	68.3	2,190,000	NA	671,000	4,390
08/19/2020		402	99.5	2,280,000	NA	638	4,160
11/16/2021	1,310	1,300	2,320,000	NA	168,000	5,590	
MW-26-VD	01/13/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	74,000 B	2,600 B	NA	61 B	1,76,000 B	NA
MW-27-D1R	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	430	200 B	NA	51,600	7,95,000 B	NA
	07/05/2017	2,800	56	11,30,000 ^	NA	3,94,000 B	2,860
	08/27/2017	1,300	330 B	960,000	NA	884,000	5,640
	07/13/2018	8,200	170 B	1,690,000	NA	5,26,000 B	2,770
	10/18/2018	2,100	61 B	1,770,000	NA	725,000	3,890
	05/10/2019	51,600	456	1,900,000	NA	579,000	3,500
	09/14/2019	12,800	161	2,090,000	NA	724,000	3,400

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
	Units	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-27-D1R (cont.)	12/05/2019	1,310	51.9	1,920,000	NA	762,000	3,800
	08/19/2020	10,600	156	2,710,000	NA	945	5,060
	11/06/2020	10,900	176	2,140,000	NA	652,000	3,870
	03/20/2021	8,780	150	2,160,000	NA	788,000	4,300
	06/02/2021	59,600	622	2,230,000	NA	795,000	4,330
	08/12/2021	6,400	138	2,120,000	NA	839,000	3,970
	11/17/2021	684	57.9	2,270,000	NA	764,000	4,260
MW-27-D2	01/13/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	1,300	38 B	NA	940 B	2,79,000 B	NA
	07/05/2017	12,400	550	26,90,000 ^	NA	4,08,000 B	6,330
	08/27/2017	11,600	1,200 B	31,40,000 ^	NA	303,000	9,140
	10/12/2017	9,500	1,700 B	44,60,000 ^	NA	374,000	8,290
	07/13/2018	4,600	340 B	2,530,000	NA	3,63,000 B	7,510
	10/18/2018	2,800	940 B	3,580,000	NA	195,000	8,300
	05/10/2019	902	197	505,000	NA	599,000	4,100
	09/14/2019	4,080	272	1,120,000	NA	638,000	3,500
	12/05/2019	1,190	174	1,620,000	NA	526,000	3,600
	02/12/2020	1,920	230	1,940,000	NA	511,000	3,800
	06/10/2020	887	97.6	1,880,000	NA	496,000	4,660
	08/19/2020	747	199	2,470,000	NA	397	3,690
	11/06/2020	1,360	996	3,260,000	NA	323,000	7,520
	03/20/2021	10,600	1,610	4,090,000	NA	291,000	8,920
	06/02/2021	12,700 O1	1,600 O1	4,510,000	NA	275,000	9,290
	08/12/2021	9,250	1,600	4,250,000	NA	338,000	7,000
11/17/2021	5,380	1,280	3,690,000	NA	252,000	6,730	
MW-28-D1	06/24/2016	79	68 B	NA	667,000	7,45,000 B	NA
	07/28/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	3,600	67	418,000 ^	NA	457,000	3,120
	08/27/2017	740	19 B	10,40,000 ^	NA	393,000	3,310
	10/11/2017	950	27 B	998,000	NA	196,000	1,530
	10/17/2018	980	22 B	386,000	NA	102,000	945
	05/09/2019	2,480	89	1,940,000	NA	667,000	3,300
	09/13/2019	511	63.1	1,970,000	NA	735,000	2,900
	12/05/2019	169	10.4 J	874,000	NA	337,000	1,800
	02/11/2020	253	49.4	1,160,000	NA	495,000	1,900
	06/09/2020	226	47.8	1,360,000	NA	472,000	2,570
	08/19/2020	167	57.7	1,410,000	NA	496	2,490
	11/06/2020	54.8 J	51.3	1,540,000	NA	548,000	3,110
	06/02/2021	88.9 J	40.0	1,340,000	NA	305,000	1,410
	08/12/2021	101	36.0	867,000	NA	485,000	1,970
	11/16/2021	820	43.1	108,000	NA	104,000	202
MW-28-D2R	06/24/2016	52,800	1,100 B	NA	182	182,000	NA
	07/28/2016	NA	NA	NA	NA	NA	NA
	07/05/2017	6,800	340	38,10,000 ^	NA	334,000	9,090
	08/27/2017	6,000	500 B	5,340,000	NA	3,37,000 B	11,300 B
	10/11/2017	9,300	470 F1 B	4,750,000	NA	412,000	6,670
	07/13/2018	5,200	190 B	3,000,000	NA	4,68,000 B	4,010
	10/17/2018	2,200	710 B	4,670,000	NA	333,000	9,820
	05/09/2019	569	224	2,850,000	NA	385,000	7,600
	09/13/2019	450	241	2,700,000	NA	428,000	4,600

See Notes on Page 41.

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York



Location ID	Date Sampled	Inorganics			General Chemistry		
		Iron	Manganese	Sodium	Alkalinity, Bicarbonate as CaCO3	Alkalinity, Total as CaCO3	Chloride
NYSDEC TOGS 1.1.1		300	300	20,000	NE	NE	250
Units		ug/L	ug/L	ug/L	mg/L	ug/L	mg/L
MW-28-D2R (cont.)	12/06/2019	463	989	4,430,000	NA	349,000	7,400
	02/11/2020	252	184	1,620,000	NA	276,000	3,600
	06/09/2020	5,050	1,730	4,130,000	NA	339,000	18,800
	08/19/2020	48,300	855	5,750,000	NA	343	9,550
	11/06/2020	5,890	370	2,760,000	NA	395,000	6,460
	03/20/2021	4,220	1,190	5,210,000	NA	347,000	10,800
	06/02/2021	7,120	1,290	5,370,000	NA	348,000	10,900
	08/12/2021	7,560	2,180	4,570,000	NA	369,000	7,480
	11/16/2021	6,620	2,020	4,550,000	NA	341,000	5,880
MW-29-D1	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	520	270 B	NA	4.3 J	5,67,000 B	NA
	10/26/2016	220 B	250 B	NA	540	540,000	NA
	10/26/2016	< 50	5.2 B	NA	547	547,000	NA
	07/05/2017	460	350	9,51,000 ^	NA	556,000	1,610
	08/27/2017	2,400	150 B	24,70,000 ^	NA	5,60,000 B	1,580
	10/12/2017	3,400	300 B	8,93,000 ^	NA	619,000	1,530
	07/13/2018	1,300	340 B	988,000	NA	5,63,000 B	1,680
	10/18/2018	1,500	270 B	960,000	NA	535,000	1,550
	05/10/2019	1,450	470	839,000	NA	469,000	1,700
	09/14/2019	4,370	58.4	23,500	NA	40,100	58
	12/06/2019	673	32.1	75,900	NA	63,500	130
	02/12/2020	2,040	131	105,000	NA	62,700	160
	06/10/2020	741	161	643,000	NA	273,000	1,050
	08/19/2020	1,360	172	574,000	NA	256	950
	11/06/2020	199	146	460,000	NA	208,000	795
	03/20/2021	8,750	205	524,000	NA	285,000	975
	06/02/2021	42,600	484	437,000	NA	174,000	566
	08/12/2021	5,200	272	446,000	NA	235,000	787
MW-29-D2	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	64	150 B	NA	430 B	4,53,000 B	NA
MW-29-VD	01/14/2016	NA	NA	NA	NA	NA	NA
	06/21/2016	390	62 B	NA	229 B	2,29,000 B	NA
MW-30-D1	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	360 B	93 B	NA	841 B	8,41,000 B	NA
MW-30-D2	01/14/2016	NA	NA	NA	NA	NA	NA
	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	< 50	110 B	NA	755 B	7,55,000 B	NA
MW-30-VD	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	4,900 B	260 B	NA	713 B	7,13,000 B	NA
MW-31-D1R	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	230 B	25 B	NA	221 B	2,21,000 B	NA
MW-31-D2R	01/14/2016	NA	NA	NA	NA	NA	NA
	06/22/2016	2,200 B	430 B	NA	508 B	5,08,000 B	NA

Table 3
Summary of Historical Groundwater VOC Analytical Results – 2016 through 2021
Chevron Facility #6518040
Former Gulf Oil Terminal
Oceanside, Township of Hempstead, New York

Notes:

ID = Identification

NYSDEC = New York State Department of Environmental Conservation

TOGS = NYSDEC Technical and Operational Guidance Series ambient water quality standards and guidance values of June 1998

ug/L = micrograms per liter

Bolded values = compound was detected

Shaded cells = concentration was above the TOGS

< = Less than indicated reporting limit

NE = Not established

CaCO₃ = calcium carbonate

J = Analyte detected at a level less than the Reporting Limit and greater than or equal to the Method Detection Limit. Concentrations within this range are estimated.

J0 = The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.

J4 = The associated batch QC was outside the established quality control range for accuracy.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low

T8 = Sample(s) received past/too close to holding time expiration.

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

H = Sample was prepped or analyzed beyond the specified holding time.

B = Compound was found in the blank and sample.

F1 = Matrix spike and/or matrix spike duplicate recovery was outside acceptance limits.

E = Result exceeded calibration range

C3 = The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

C5 = The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

[] = Duplicate analysis results

D = Sample was diluted due to high concentration of target analytes.

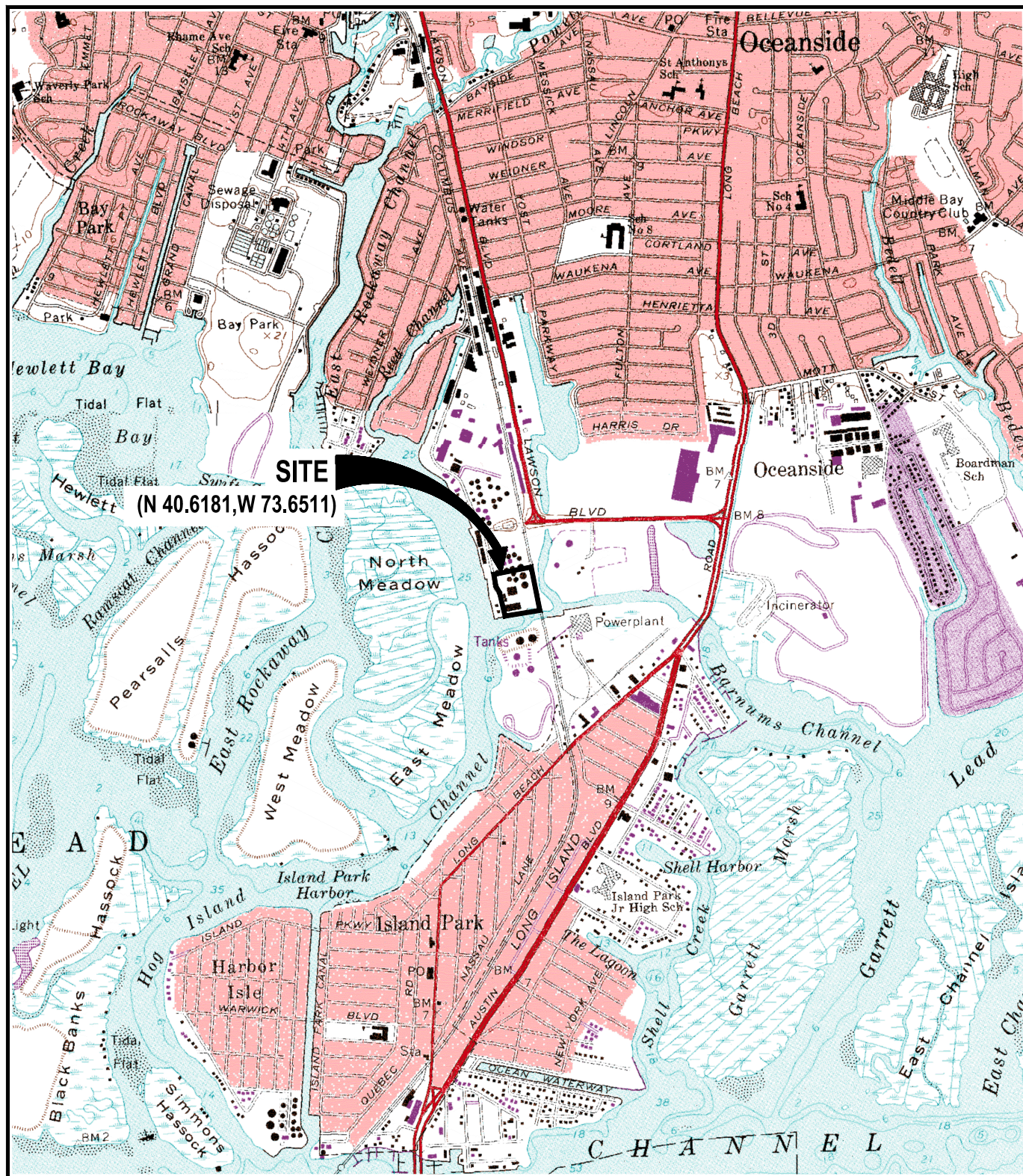
O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

* = LCS or LCSD was above the control limits.

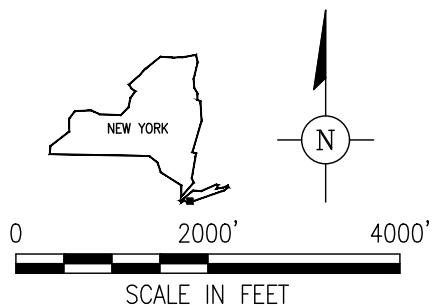
^ = Instrument related QC was outside acceptance limits.

-- = Not available

Figures



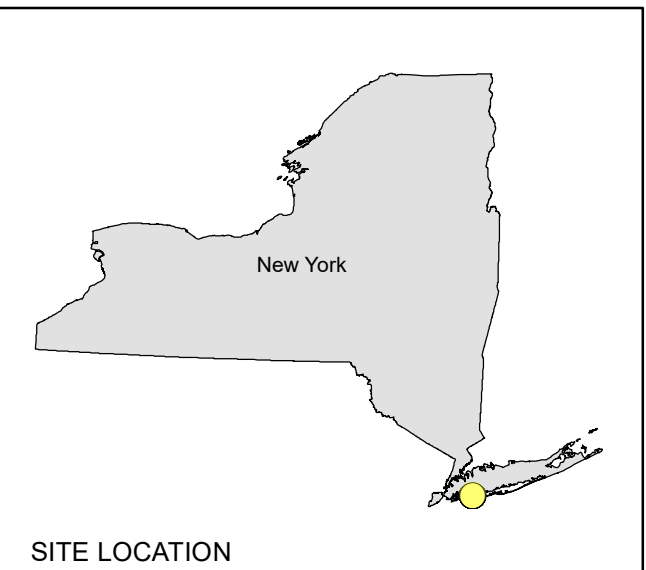
MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE 1979 LYNBROOK AND LAWRENCE, NEW YORK



FORMER GULF OIL TERMINAL
 (CHEVRON FACILITY #6518040)
 OCEANSIDE, NEW YORK

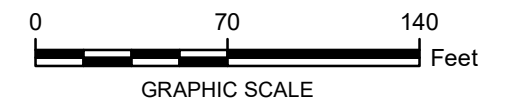
SITE LOCATION MAP

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: av00976
TA: ENV/Chevron Oceanside NY/ProgressReport/mt/SitePlan.mxd 4/28/2021 10:28:01 AM



LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS



NOTE:

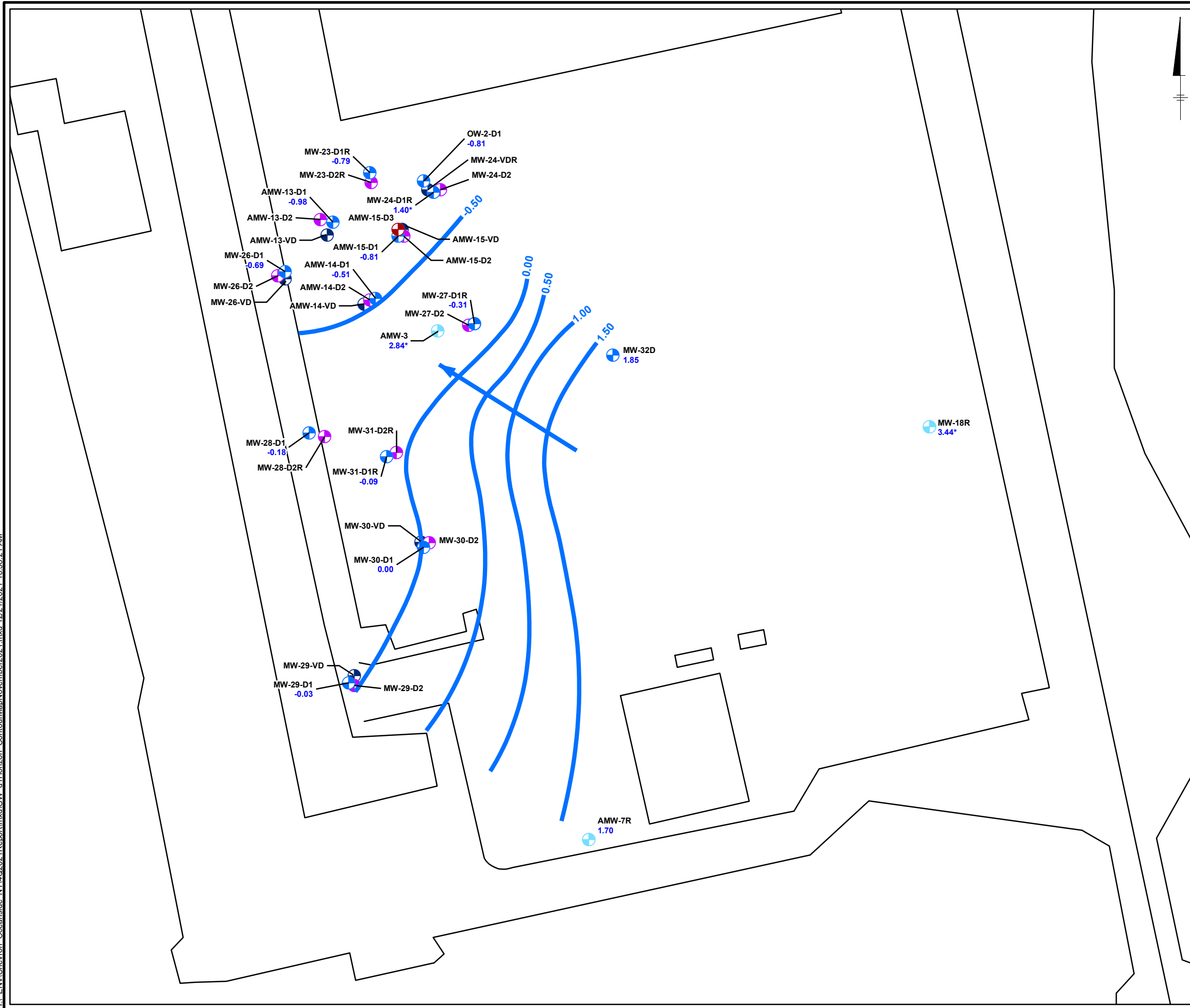
- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

SITE PLAN



City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: msi01059
T1: ENV\Chevron Oceanside NY\402021\Report\mxd\GW c1\Horizon ContourMapNovember2021.mxd 12/21/2021 10:38:21 AM



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- NOT USED TO GENERATE CONTOURS

NOTE:

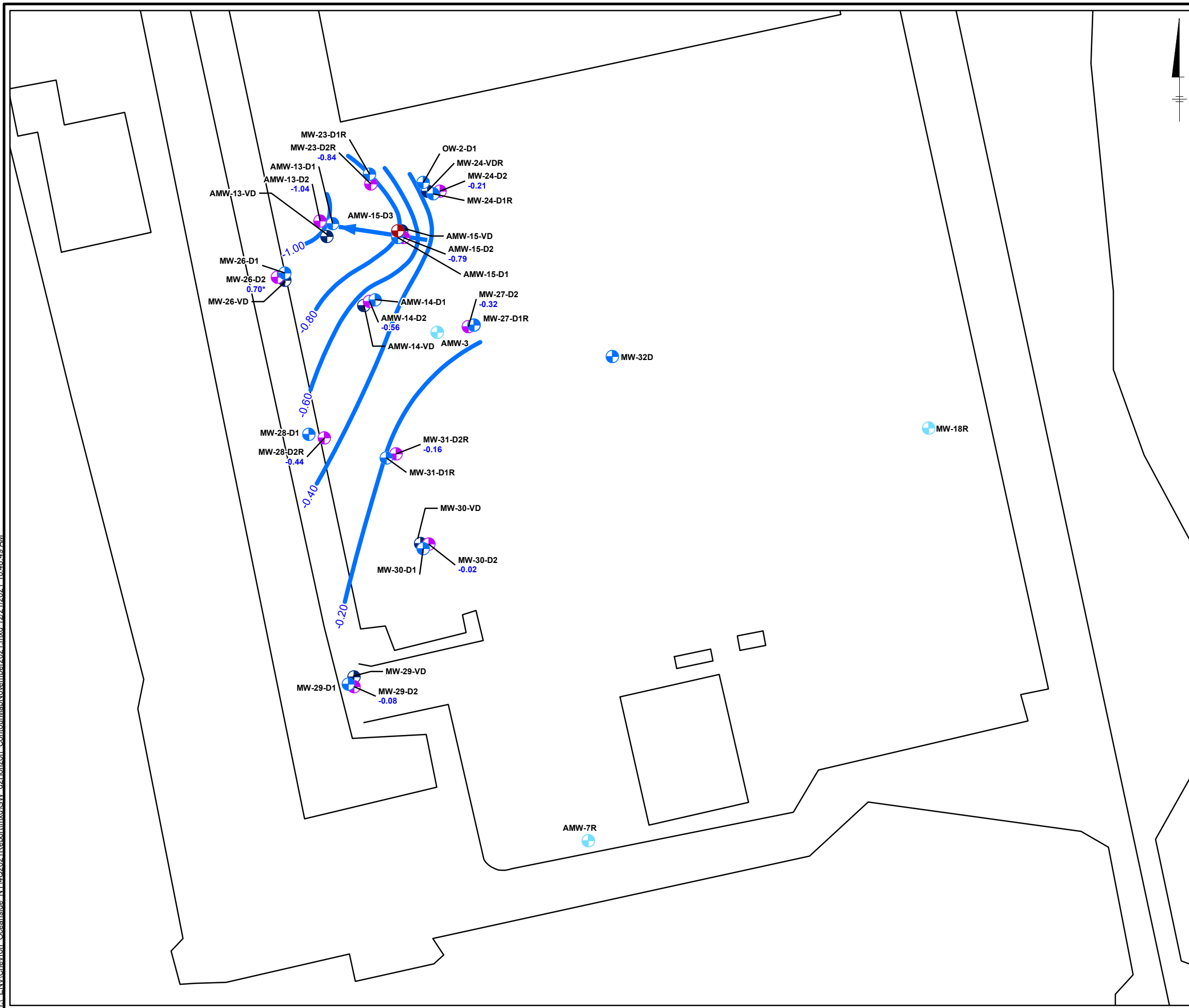
- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
- THE WELLS WERE GAUGED DURING HIGH TIDE.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**D1 HORIZON GROUNDWATER
CONTOUR MAP
NOVEMBER 15, 2021**

ARCADIS

**FIGURE
3**



NEW YORK

SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION
- GROUNDWATER ELEVATION IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
- NOT USED TO GENERATE CONTOURS

0 70 140 Feet

GRAPHIC SCALE

NOTE:

- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
- THE WELLS WERE GAUGED DURING HIGH TIDE.

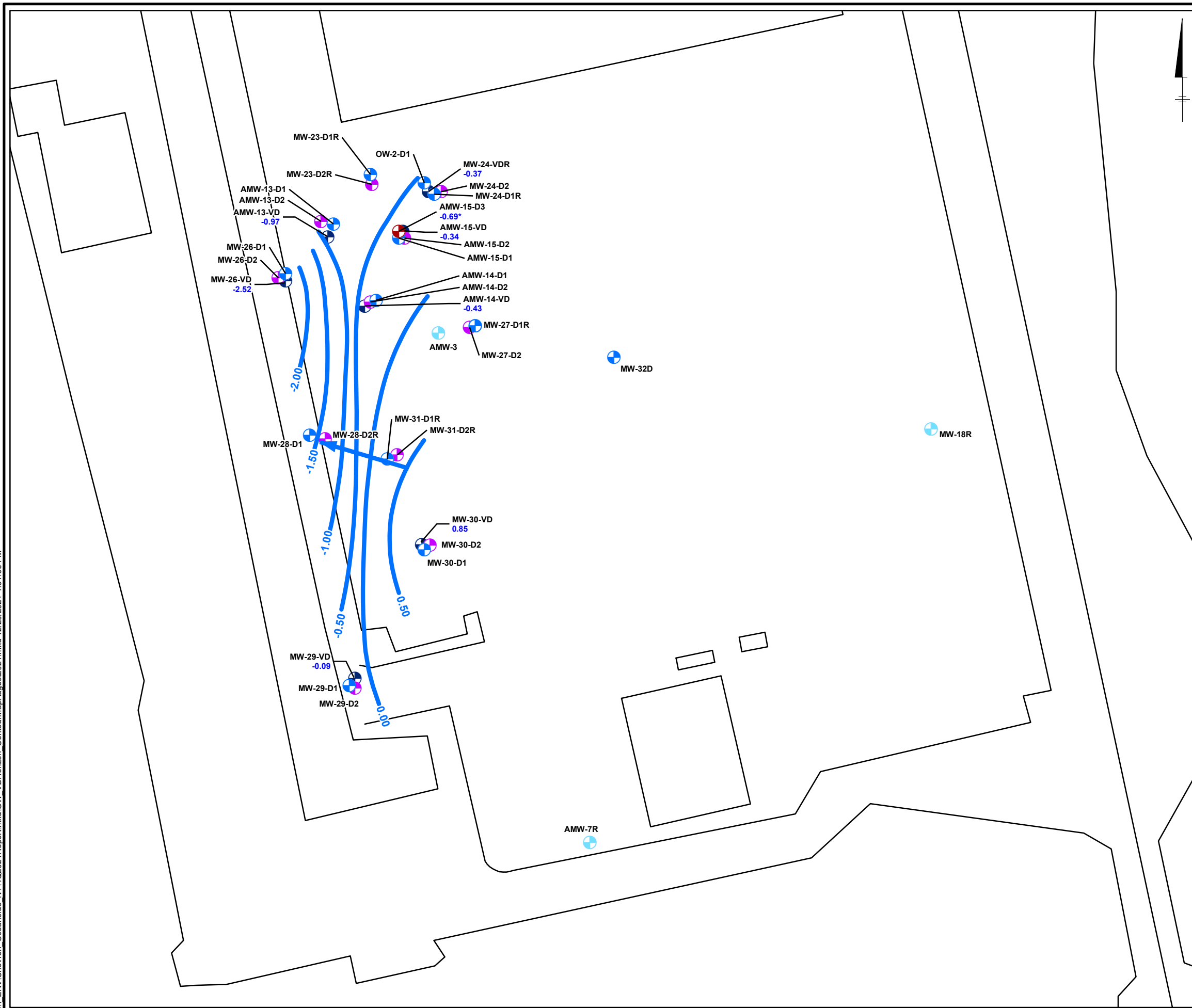
CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

D2 HORIZON GROUNDWATER
CONTOUR MAP
NOVEMBER 15, 2021

ARCADIS

FIGURE
4

City: SYR Div/Group: IMDV Created By: J.Rapp Last Saved By: msf01059
T:\ENVChevron_Oceanside_NY\42021\Report\mxd\GW_VD\Horizon_ContourMapAugust2021.mxd 12/20/2021 1:01:06 PM



New York

SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS
- 0.85 GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- GROUNDWATER ELEVATION CONTOUR (NAVD 88)
- APPROXIMATE FLOW DIRECTION
- 0.69* NOT USED TO GENERATE CONTOURS

0 70 140 Feet

GRAPHIC SCALE

NOTE:

- 2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
- THE WELLS WERE GAUGED DURING HIGH TIDE.

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

**VD HORIZON GROUNDWATER
CONTOUR MAP
NOVEMBER 15, 2021**

ARCADIS

FIGURE
5

Sample ID	MW-23-D1R
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	95.3
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-23-D2R
Sample Date	11/16/2021
Benzene	0.0984 J
Ethylbenzene	<1.00
Methyl t-butyl ether	18.2
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-26-D1
Sample Date	11/16/2021
Benzene	5.60
Ethylbenzene	0.947 J
Methyl t-butyl ether	75.6
trans-1,2-Dichloroethene	1.65
Vinyl Chloride (Chloroethene)	6.74
Xylene (total)	1.37 J

Sample ID	MW-26-D2
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-14-D2
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	23.6
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-14-VD
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	0.267 J
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-14-D1
Sample Date	11/16/2021
Benzene	2.10
Ethylbenzene	2.18
Methyl t-butyl ether	55.8
trans-1,2-Dichloroethene	14.6
Vinyl Chloride (Chloroethene)	10.4
Xylene (total)	2.95 J

Sample ID	MW-28-D1
Sample Date	11/16/2021
Benzene	6.10
Ethylbenzene	1.53
Methyl t-butyl ether	7.56
trans-1,2-Dichloroethene	0.185 J
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	1.75 J

Sample ID	MW-28-D2R
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-24-VDR
Sample Date	11/16/2021
Benzene	0.125 J
Ethylbenzene	<1.00
Methyl t-butyl ether	0.249 J
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	MW-24-D1R
Sample Date	11/16/2021
Benzene	8.94 [8.91]
Ethylbenzene	5.98 [6.64]
Methyl t-butyl ether	199 [185]
trans-1,2-Dichloroethene	10.9 [9.11]
Vinyl Chloride (Chloroethene)	<1.00 [0.391 J]
Xylene (total)	12.6 [12.3]

Sample ID	MW-24-D2
Sample Date	11/16/2021
Benzene	0.406 J
Ethylbenzene	<1.00
Methyl t-butyl ether	224
trans-1,2-Dichloroethene	0.668 J
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	0.180 J

Sample ID	AMW-15-VD
Sample Date	11/16/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	0.562 J
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-15-D3
Sample Date	11/16/2021
Benzene	9.89
Ethylbenzene	1.57
Methyl t-butyl ether	61.7
trans-1,2-Dichloroethene	0.499 J
Vinyl Chloride (Chloroethene)	5.59
Xylene (total)	3.66

Sample ID	AMW-15-D2
Sample Date	11/16/2021
Benzene	0.538 J
Ethylbenzene	<1.00
Methyl t-butyl ether	62.0
trans-1,2-Dichloroethene	0.367 J
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

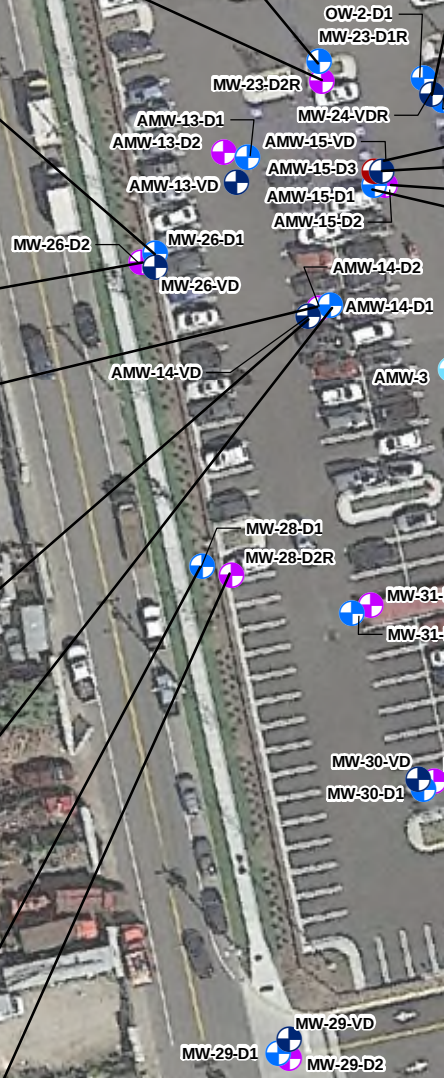
Sample ID	AMW-15-D1
Sample Date	11/16/2021
Benzene	6.78
Ethylbenzene	5.19
Methyl t-butyl ether	149
trans-1,2-Dichloroethene	5.81
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	2.26 J

Sample ID	MW-18R
Sample Date	11/16/2021
Benzene	45.3
Ethylbenzene	1.35
Methyl t-butyl ether	26.5
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	7.81

Sample ID	MW-27-D1R
Sample Date	11/17/2021
Benzene	5.67
Ethylbenzene	0.722 J
Methyl t-butyl ether	37.6
trans-1,2-Dichloroethene	3.89
Vinyl Chloride (Chloroethene)	43.7
Xylene (total)	1.67 J

Sample ID	MW-27-D2
Sample Date	11/17/2021
Benzene	<1.00
Ethylbenzene	<1.00
Methyl t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00

Sample ID	AMW-7R
Sample Date	11/16/2021
Benzene	0.124 J
Ethylbenzene	<1.00
Methyl t-butyl ether	<1.00
trans-1,2-Dichloroethene	<1.00
Vinyl Chloride (Chloroethene)	<1.00
Xylene (total)	<3.00



SITE LOCATION

LEGEND:

- SHALLOW FILL UNIT MONITORING WELLS
- D1 HORIZON MONITORING WELLS
- D2 HORIZON MONITORING WELLS
- D3 HORIZON MONITORING WELLS
- VD HORIZON MONITORING WELLS

Parameter Name	NYDEC TOGS 1.1.1
Benzene	1 ug/L
Ethylbenzene	5 ug/L
Methyl-t-butyl ether	10 ug/L
trans-1,2-Dichloroethene	5 ug/L
Vinyl chloride (Chloroethene)	2 ug/L
Xylene (total)	5 ug/L

NOTES:
2017 IMAGERY OBTAINED FROM GOOGLE EARTH.
CONCENTRATIONS ARE IN MICROGRAMS PER LITER (UG/L)
ID = IDENTIFICATION
NYSDEC = NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
TOGS = NYSDEC TECHNICAL AND OPERATIONAL GUIDANCE SERIES AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES OF JUNE 1998
BOLDED VALUES = COMPOUND DETECTED
GREY SHADED CELLS = CONCENTRATION ABOVE THE TOGS
J = ANALYTE DETECTED AT A LEVEL LESS THAN THE REPORTING LIMIT (RL) AND GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL).
CONCENTRATIONS WITHIN THIS RANGE ARE ESTIMATED.
[] = DUPLICATE ANALYSIS RESULTS
< = LESS THAN INDICATED REPORTING LIMIT

CHEVRON FACILITY 6518040
3705 HAMPTON RD
OCEANSIDE, NY

GROUNDWATER ANALYTICAL RESULTS NOVEMBER 16 AND 17, 2021



Attachment 1

Groundwater Gauging and Sampling Logs

TABLE 2
SUMMARY OF GROUNDWATER GAUGING DATA
FORMER GULF OIL TERMINAL
OCEANSIDE, TOWNSHIP OF HEMPSTEAD, NEW YORK

Monitoring Well	Date	Well Diameter (in)	Well Depth (ft btoc)	Top of Casing Elevation (ft)*	Depth to Water (ft btoc)	Depth to Bottom (ft btoc)
AMW-3	11/15/21	2	12.42	9.05	6.21	12.40
AMW-13-D1	11/15/21	2	34.01	9.87	10.85	32.90
AMW-13-D2	11/15/21	2	43.95	9.76	10.80	42.77
AMW-13-VD	11/15/21	2	71.82	9.77	10.40	70.38
OW-2-D1	11/15/21	2	33.95	9.94	10.75	33.66
MW-26-VD	11/15/21	2	68.25	9.99	9.55	8.70
MW-29-D2	11/15/21	2	39.82	5.38	5.46	37.72
MW-29-VD	11/15/21	2	67.22	5.27	5.36	59.73
MW-30-D1	11/15/21	2	30	8.74	8.74	29.76
MW-30-D2	11/15/21	2	46.63	8.72	8.74	40.25
MW-30-VD	11/15/21	4	83.40	8.70	17.85	82.44
MW-31-D1R	11/15/21	2	30.04	8.39	8.48	29.92
MW-31-D2R	11/15/21	2	45.15	8.35	8.51	45.85
MW-32D	11/15/21	2	37.45	8.85	7.00	29.35.97
MW-27-D2	11/15/21	2	46.97	9.09	9.46	46.37
MW-28-D2R	11/15/21	2	46.69	8.40	8.84	46.41
MW-24-D2	11/15/21	2	42.20	10.00	10.21	41.90
MW-24-VDR	11/15/21	2	73.98	9.72	10.09	69.79
AMW-15-VD	11/15/21	2	72.15	9.82	10.16	71.05
AMW-7R	11/15/21	2	14.42	9.95	8.85	13.86
AMW-14-VD	11/15/21	2	75.61	9.25	9.68	74.37
AMW-14-D2	11/15/21	2	43.17	9.37	9.93	42.68
MW-28-D1	11/15/21	2	30.38	8.25	8.43	30.71
MW-26-D2	11/15/21	2	43.76	9.40	8.70	8.70 43.22
MW-23-D2R	11/15/21	2	44.63	10.52	11.36	45.06
AMW-15-D2	11/15/21	2	36.2	9.71	10.56	40.93
AMW-15-D3	11/15/21	2	48.6	9.81	10.50	48.63
MW-23-D1R	11/15/21	2	25.78	9.84	10.63	25.78
AMW-15-D1	11/15/21	2	36.2	9.74	10.55	35.80
MW-27-D1R	11/15/21	2	32.99	9.01	9.32	27.50 32.30
MW-26-D1	11/15/21	2	28.8	9.95	10.64	29.68
MW-29-D1	11/15/21	2	23.45	5.21	5.34	23.45
MW-18R	11/15/21	2	10.17	7.98	4.54	9.94
AMW-14-D1	11/15/21	2	33.15	9.38	9.89	32.70
MW-24-D1R	11/15/21	2	32.23	9.82	8.42	31.53

Notes:

*Top of casing elevations were surveyed by Borbas Surveying & Mapping, LLC, September 18, 2017 and re-drilled wells on June 1, 2018.

in - inches

ft btoc - Feet below top of casing

ft amsl - Feet above mean sea level

NG - Not gauged

Highlighted **RED Bolded** wells **need** to be gauged in that order. Highlighted wells should be gauged before red wells and after regular wells, but in no specific order. Regular wells can be gauged in any order so long as they are before highlighted wells

First, any order

second, any order **Last, in specified order**

DTB after Sampling

no hydr
no hydr

No Hydr

BD →

Well ID	Time	pH	Temp (deg C)	Cond (Ms/cm3)	DO (mg/L)	ORP (mV)	ST	Notes
AMW-14-VD	0030	6.93	12.22	24.17	2.09	-225	0030	11/16/21
AMW-14-D2	0055	7.05	10.88	12.32	0.36	-250.1	0055	11/16/21
AMW-14-D1	0120	7.03	9.17	11.93	0.05	-303.7	0120	11/16/21
AMW-15-D1	0150	7.39	8.96	8.925	0.26	-293.0	0150	11/16/21
AMW-15-D2	0210	7.01	9.18	12.70	0.06	-272.2	0210	11/16/21
AMW-15-D3	0230	12.05	10.79	4.111	3.03	-365.1	0230	11/16/21
AMW-15-VD	0250	7.10	10.49	45.07	0.06	-172.9	0250	11/16/21
MW-28-D2R	1940	6.56	12.28	173.7	1.85	37.2	1940	11/16/21
MW-28-D1	2000	7.64	12.49	4.740	0.23	-311.5	2000	11/16/21
AMW-7R	2030	7.12	15.79	1.722	0.20	-213.1	2036	11/16/21
MW-18R	2055	7.11	15.74	3.333	0.19	-250.9	2055	11/16/21
MW-26-D1	2130	6.93	12.63	7.561	0.06	-270.9	2130	11/16/21
MW-26-D2	2150	7.34	14.21	10.47	1.83	-195.5	2150	11/16/21
MW-23-D2R	2215	7.32	17.18	6.709	2.76	-143.3	2215	11/16/21
MW-23-D1R	2230	6.94	13.87	8.049	0.29	-283.3	2230	11/16/21
MW-24-VD	2300	7.50	14.83	10.63	1.98	-165.6	2300	11/16/21
MW-24-D2	2315	7.50	14.65	6.378	0.13	-245.2	2315	11/16/21
MW-24-D1R	2340	6.98	14.44	7.567	0.05	-275.6	2340	11/16/21
MW-27-D2	0030	6.23	11.00	14.86	0.03	-458.2	0030	11/17/21
MW-29-D1	0100							no sample. No hydrogen sulfide
MW-27-D1R	0130	6.92	13.59	12.59	0.15	-292.7	0130	11/17/21

FBG 2350 11/16/21

FBG 0145 11/17/21

Attachment 2

Laboratory Analytical Report

Arcadis - Chevron - NY

Sample Delivery Group: L1432919
Samples Received: 11/18/2021
Project Number: 30062947.19.21
Description: POD 4 - Oceanside 6518040
Site: 6518040
Report To: Ryan Merrell
27-01 Queens Plaza North
Suite 800
New York City, NY 11101

Entire Report Reviewed By:



Chris McCord
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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

Gl: Glossary of Terms

Al: Accreditations & Locations

Sc: Sample Chain of Custody

116

117

118

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

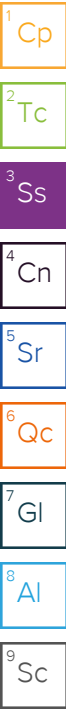
MW-27-D2-W-211117 L1432919-01 GW

Collected by
KV / AB

Collected date/time
11/17/21 00:30

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:06	12/10/21 02:06	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:01	11/24/21 02:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	10	11/19/21 11:26	11/19/21 11:26	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788596	1	12/15/21 17:25	12/15/21 17:25	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:01	11/24/21 02:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:17	11/21/21 10:17	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/08/21 23:15	12/08/21 23:15	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 02:43	11/23/21 02:43	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:06	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	10	12/07/21 12:57	12/10/21 10:31	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:27	11/25/21 14:27	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/22/21 23:51	11/22/21 23:51	JCP	Mt. Juliet, TN



MW-28-D2R-W-211116 L1432919-02 GW

Collected by
KV / AB

Collected date/time
11/16/21 19:40

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:09	12/10/21 02:09	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:21	11/24/21 02:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	10	11/19/21 11:27	11/19/21 11:27	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:00	12/14/21 14:00	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:21	11/24/21 02:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:17	11/21/21 10:17	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/08/21 23:31	12/08/21 23:31	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 03:00	11/23/21 03:00	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:09	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	10	12/07/21 12:57	12/10/21 10:33	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:31	11/25/21 14:31	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 00:12	11/23/21 00:12	JCP	Mt. Juliet, TN

MW-24-D2-W-211116 L1432919-03 GW

Collected by
KV / AB

Collected date/time
11/16/21 23:15

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:12	12/10/21 02:12	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:29	11/24/21 02:29	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:28	11/19/21 11:28	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:02	12/14/21 14:02	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:29	11/24/21 02:29	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:14	11/20/21 00:14	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	20	12/09/21 00:04	12/09/21 00:04	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/08/21 23:48	12/08/21 23:48	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	5	11/23/21 03:15	11/23/21 03:15	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:12	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:35	11/25/21 14:35	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 06:17	11/23/21 06:17	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1780109	10	11/25/21 04:11	11/25/21 04:11	BMB	Mt. Juliet, TN

SAMPLE SUMMARY

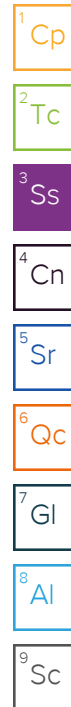
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Collected by
KV / AB

Collected date/time
11/16/21 23:00

Received date/time
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Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:15	12/10/21 02:15	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:34	11/24/21 02:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	5	11/19/21 11:31	11/19/21 11:31	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:03	12/14/21 14:03	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:34	11/24/21 02:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:17	11/21/21 10:17	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	1	12/09/21 00:20	12/09/21 00:20	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/09/21 01:10	12/09/21 01:10	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1779022	1	11/23/21 13:01	11/23/21 13:01	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:15	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:39	11/25/21 14:39	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 00:32	11/23/21 00:32	JCP	Mt. Juliet, TN



AMW-15-VD-W-211116 L1432919-05 GW

Collected by
KV / AB

Collected date/time
11/16/21 02:50

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:24	12/10/21 02:24	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:38	11/24/21 02:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	30	11/19/21 11:31	11/19/21 11:31	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:04	12/14/21 14:04	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:38	11/24/21 02:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:15	11/20/21 00:15	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 01:59	12/09/21 01:59	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	500	12/09/21 12:18	12/09/21 12:18	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1779022	1	11/23/21 13:35	11/23/21 13:35	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:24	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	10	12/07/21 12:57	12/10/21 10:36	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:43	11/25/21 14:43	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 00:53	11/23/21 00:53	JCP	Mt. Juliet, TN

AMW-7R-W-211116 L1432919-06 GW

Collected by
KV / AB

Collected date/time
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Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:27	12/10/21 02:27	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:42	11/24/21 02:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	30	11/19/21 11:33	11/19/21 11:33	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:05	12/14/21 14:05	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:42	11/24/21 02:42	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:18	11/21/21 10:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/09/21 02:15	12/09/21 02:15	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 04:42	11/23/21 04:42	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:27	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:52	11/25/21 14:52	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 01:13	11/23/21 01:13	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

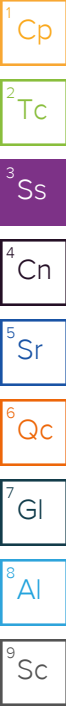
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Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:30	12/10/21 02:30	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:47	11/24/21 02:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	30	11/19/21 11:34	11/19/21 11:34	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:08	12/14/21 14:08	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:47	11/24/21 02:47	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:18	11/21/21 10:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 02:48	12/09/21 02:48	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	500	12/09/21 12:35	12/09/21 12:35	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 04:58	11/23/21 04:58	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:30	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	10	12/07/21 12:57	12/10/21 10:39	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779876	1	11/25/21 14:58	11/25/21 14:58	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 01:33	11/23/21 01:33	JCP	Mt. Juliet, TN



AMW-14-D2-W-211116 L1432919-08 GW

Collected by
KV / AB

Collected date/time
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Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:33	12/10/21 02:33	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:51	11/24/21 02:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:35	11/19/21 11:35	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:09	12/14/21 14:09	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:51	11/24/21 02:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:18	11/21/21 10:18	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 03:21	12/09/21 03:21	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/09/21 03:05	12/09/21 03:05	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 05:19	11/23/21 05:19	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:33	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:33	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:01	11/26/21 11:01	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 01:54	11/23/21 01:54	JCP	Mt. Juliet, TN

MW-28-D1-W-211116 L1432919-09 GW

Collected by
KV / AB

Collected date/time
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Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:35	12/10/21 02:35	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 02:56	11/24/21 02:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:36	11/19/21 11:36	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:14	12/14/21 14:14	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 02:56	11/24/21 02:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:16	11/20/21 00:16	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/09/21 03:37	12/09/21 03:37	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 05:48	11/23/21 05:48	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:35	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:04	11/26/21 11:04	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 02:14	11/23/21 02:14	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

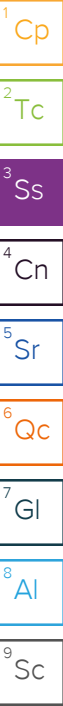
MW-26-D2-W-211116 L1432919-10 GW

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Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:54	12/10/21 01:54	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 03:12	11/24/21 03:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	5	11/19/21 11:39	11/19/21 11:39	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:16	12/14/21 14:16	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 03:12	11/24/21 03:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:22	11/21/21 10:22	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 04:22	12/09/21 04:22	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 04:39	12/09/21 04:39	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 06:04	11/23/21 06:04	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:54	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:36	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:12	11/26/21 11:12	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 02:34	11/23/21 02:34	JCP	Mt. Juliet, TN



MW-23-D2R-W-211116 L1432919-11 GW

Collected by
KV / AB

Collected date/time
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Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:38	12/10/21 02:38	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 03:16	11/24/21 03:16	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	5	11/19/21 11:40	11/19/21 11:40	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:17	12/14/21 14:17	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 03:16	11/24/21 03:16	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:22	11/21/21 10:22	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 05:28	12/09/21 05:28	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 05:45	12/09/21 05:45	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 07:43	11/23/21 07:43	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:38	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:39	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:16	11/26/21 11:16	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 02:55	11/23/21 02:55	JCP	Mt. Juliet, TN

AMW-15-D2-W-211116 L1432919-12 GW

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KV / AB

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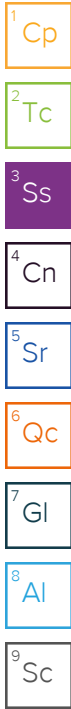
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Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:41	12/10/21 02:41	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 03:20	11/24/21 03:20	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:41	11/19/21 11:41	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:18	12/14/21 14:18	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 03:20	11/24/21 03:20	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:17	11/20/21 00:17	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 06:01	12/09/21 06:01	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 06:17	12/09/21 06:17	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 08:01	11/23/21 08:01	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:41	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:41	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:20	11/26/21 11:20	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 03:15	11/23/21 03:15	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

AMW-15-D3-W-211116 L1432919-13 GW

				Collected by KV / AB	Collected date/time 11/16/21 02:30	Received date/time 11/18/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:44	12/10/21 02:44	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778793	1	11/24/21 03:25	11/24/21 03:25	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:42	11/19/21 11:42	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788525	1	12/14/21 14:19	12/14/21 14:19	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778793	1	11/24/21 03:25	11/24/21 03:25	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:23	11/21/21 10:23	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	1	12/09/21 06:34	12/09/21 06:34	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 07:07	12/09/21 07:07	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 08:43	11/23/21 08:43	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:25	11/26/21 11:25	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 03:35	11/23/21 03:35	JCP	Mt. Juliet, TN



MW-23-D1R-W-211116 L1432919-14 GW

				Collected by KV / AB	Collected date/time 11/16/21 22:30	Received date/time 11/18/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:47	12/10/21 02:47	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:13	11/24/21 02:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:44	11/19/21 11:44	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:42	12/14/21 16:42	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:13	11/24/21 02:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:23	11/21/21 10:23	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 07:39	12/09/21 07:39	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	5	12/09/21 07:23	12/09/21 07:23	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	1	11/23/21 09:02	11/23/21 09:02	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:47	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:31	11/26/21 11:31	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 03:56	11/23/21 03:56	JCP	Mt. Juliet, TN

AMW-15-D1-W-211116 L1432919-15 GW

				Collected by KV / AB	Collected date/time 11/16/21 01:50	Received date/time 11/18/21 09:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 02:50	12/10/21 02:50	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:21	11/24/21 02:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:45	11/19/21 11:45	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:43	12/14/21 16:43	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:21	11/24/21 02:21	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	20	11/21/21 10:27	11/21/21 10:27	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 07:56	12/09/21 07:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 08:45	12/09/21 08:45	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	5	11/23/21 09:25	11/23/21 09:25	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 02:50	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:38	11/26/21 11:38	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 04:16	11/23/21 04:16	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

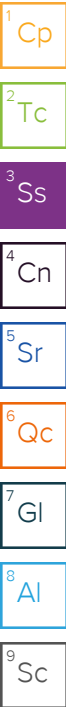
MW-27-D1R-W-211117 L1432919-16 GW

Collected by
KV / AB

Collected date/time
11/17/21 01:30

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:28	12/10/21 01:28	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:26	11/24/21 02:26	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:45	11/19/21 11:45	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788596	1	12/15/21 17:26	12/15/21 17:26	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:26	11/24/21 02:26	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:28	11/21/21 10:28	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 09:02	12/09/21 09:02	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 09:18	12/09/21 09:18	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	5	11/23/21 09:39	11/23/21 09:39	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:28	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:47	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:43	11/26/21 11:43	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 04:36	11/23/21 04:36	JCP	Mt. Juliet, TN



MW-26-D1-W-211116 L1432919-17 GW

Collected by
KV / AB

Collected date/time
11/16/21 21:30

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:31	12/10/21 01:31	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:30	11/24/21 02:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:47	11/19/21 11:47	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:45	12/14/21 16:45	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:30	11/24/21 02:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:29	11/21/21 10:29	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 09:34	12/09/21 09:34	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 09:51	12/09/21 09:51	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778501	5	11/23/21 09:55	11/23/21 09:55	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:31	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:50	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 11:52	11/26/21 11:52	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 04:56	11/23/21 04:56	JCP	Mt. Juliet, TN

AMW-14-D1-W-211116 L1432919-18 GW

Collected by
KV / AB

Collected date/time
11/16/21 01:20

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:34	12/10/21 01:34	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:34	11/24/21 02:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:49	11/19/21 11:49	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:46	12/14/21 16:46	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:34	11/24/21 02:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:29	11/21/21 10:29	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 10:07	12/09/21 10:07	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 10:24	12/09/21 10:24	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	5	11/22/21 14:16	11/22/21 14:16	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:34	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:53	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:09	11/26/21 12:09	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 05:17	11/23/21 05:17	JCP	Mt. Juliet, TN

SAMPLE SUMMARY

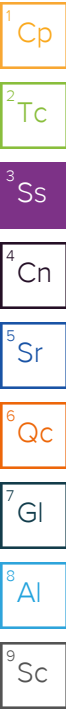
MW-24-D1R-W-211116 L1432919-19 GW

Collected by
KV / AB

Collected date/time
11/16/21 23:40

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:37	12/10/21 01:37	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:39	11/24/21 02:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:51	11/19/21 11:51	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:47	12/14/21 16:47	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:39	11/24/21 02:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:17	11/20/21 00:17	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	10	12/09/21 10:40	12/09/21 10:40	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	100	12/09/21 10:56	12/09/21 10:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	5	11/22/21 14:36	11/22/21 14:36	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:37	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	5	12/07/21 12:57	12/10/21 11:56	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:15	11/26/21 12:15	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 05:37	11/23/21 05:37	JCP	Mt. Juliet, TN



MW-18R-W-211116 L1432919-20 GW

Collected by
KV / AB

Collected date/time
11/16/21 20:55

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785200	1	12/10/21 01:40	12/10/21 01:40	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:43	11/24/21 02:43	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1777138	1	11/19/21 11:52	11/19/21 11:52	MRM	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:48	12/14/21 16:48	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:43	11/24/21 02:43	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:29	11/21/21 10:29	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786203	20	12/09/21 12:02	12/09/21 12:02	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	5	11/22/21 14:56	11/22/21 14:56	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785200	1	12/07/21 12:57	12/10/21 01:40	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:19	11/26/21 12:19	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1778784	1	11/23/21 05:57	11/23/21 05:57	JCP	Mt. Juliet, TN

BD-W-211116 L1432919-21 GW

Collected by
KV / AB

Collected date/time
11/16/21 00:00

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785195	1	12/10/21 05:45	12/10/21 05:45	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 02:48	11/24/21 02:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1776691	1	11/21/21 15:35	11/21/21 15:35	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:53	12/14/21 16:53	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 02:48	11/24/21 02:48	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777670	1	11/20/21 00:18	11/20/21 00:18	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	10	12/08/21 23:49	12/08/21 23:49	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 00:05	12/09/21 00:05	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	5	11/22/21 15:16	11/22/21 15:16	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785195	1	12/08/21 15:36	12/10/21 05:45	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785195	5	12/08/21 15:36	12/10/21 08:06	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:24	11/26/21 12:24	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1779329	1	11/23/21 20:33	11/23/21 20:33	BMB	Mt. Juliet, TN

SAMPLE SUMMARY

FB-W-211116 L1432919-22 GW

Collected by
KV / AB

Collected date/time
11/16/21 23:50

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785195	1	12/10/21 05:48	12/10/21 05:48	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 03:06	11/24/21 03:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1776691	1	11/21/21 15:36	11/21/21 15:36	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788595	1	12/14/21 16:55	12/14/21 16:55	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 03:06	11/24/21 03:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:30	11/21/21 10:30	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 00:21	12/09/21 00:21	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	1	11/22/21 15:46	11/22/21 15:46	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785195	1	12/08/21 15:36	12/10/21 05:48	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:28	11/26/21 12:28	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1779329	1	11/23/21 18:36	11/23/21 18:36	BMB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

FB-W-211117 L1432919-23 GW

Collected by
KV / AB

Collected date/time
11/17/21 01:45

Received date/time
11/18/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1785195	1	12/10/21 04:29	12/10/21 04:29	CCE	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1778864	1	11/24/21 03:11	11/24/21 03:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method 3500Fe B-2011	WG1776691	1	11/21/21 15:37	11/21/21 15:37	BMD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1788596	1	12/15/21 17:28	12/15/21 17:28	LDT	Mt. Juliet, TN
Wet Chemistry by Method 4500CO2 D-2011	WG1778864	1	11/24/21 03:11	11/24/21 03:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1777937	1	11/21/21 10:31	11/21/21 10:31	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1787688	1	12/11/21 17:56	12/11/21 17:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG1778504	1	11/22/21 16:01	11/22/21 16:01	MJA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG1785195	1	12/08/21 15:36	12/10/21 04:29	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method RSK175	WG1779877	1	11/26/21 12:33	11/26/21 12:33	CMS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1779329	1	11/23/21 18:56	11/23/21 18:56	BMB	Mt. Juliet, TN

TB-W-211117 L1432919-24 GW

Collected by
KV / AB

Collected date/time
11/17/21 00:00

Received date/time
11/18/21 09:30

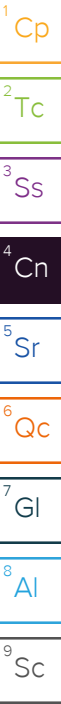
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1779329	1	11/23/21 18:17	11/23/21 18:17	BMB	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Chris McCord
Project Manager



Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1776691	3500Fe B-2011	L1432919-21, 22, 23
WG1777138	3500Fe B-2011	L1432919-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
WG1778793	4500CO2 D-2011	L1432919-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13
WG1778864	4500CO2 D-2011	L1432919-14, 15, 16, 17, 18, 19, 20, 21, 22, 23

Wet Chemistry by Method 353.2

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1788595	(MS) R3740637-7, (MSD) R3740637-5	Nitrate-Nitrite

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1788596	(MS) R3741157-6, (MSD) R3741157-7	Nitrate-Nitrite

Wet Chemistry by Method 4500S2 D-2011

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1777937	(MSD) R3732055-5, L1432919-10	Sulfide

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1786203	(MSD) R3739358-4	Chloride

CASE NARRATIVE

Wet Chemistry by Method 9056A

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1786203	(MS) R3739358-7	Chloride
WG1786205	(MS) R3738957-4, (MS) R3738957-6, (MSD) R3738957-5, (MSD) R3738957-7	Sulfate

Wet Chemistry by Method 9060A

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1778501	TOC (Total Organic Carbon)	L1432919-01, 03, 16
WG1778504	TOC (Total Organic Carbon)	L1432919-22, 23
WG1779022	TOC (Total Organic Carbon)	L1432919-04

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1785200	(MS) R3739194-4, (MSD) R3739194-5	Sodium

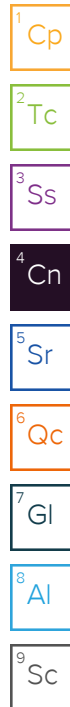
Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1778784	L1432919-01	Acetone
WG1778784	L1432919-02	Acetone
WG1778784	L1432919-03	Acetone
WG1778784	L1432919-04	Acetone
WG1778784	L1432919-05	Acetone
WG1778784	L1432919-06	Acetone
WG1778784	L1432919-07	Acetone
WG1778784	L1432919-08	Acetone
WG1778784	L1432919-09	Acetone
WG1778784	L1432919-10	Acetone
WG1778784	L1432919-11	Acetone
WG1778784	L1432919-12	Acetone
WG1778784	L1432919-13	Acetone
WG1778784	L1432919-14	Acetone
WG1778784	L1432919-15	Acetone
WG1778784	L1432919-16	Acetone
WG1778784	L1432919-17	Acetone
WG1778784	L1432919-18	Acetone
WG1778784	L1432919-19	Acetone
WG1778784	L1432919-20	Acetone
WG1779329	L1432919-21	1,1,2,2-Tetrachloroethane
WG1779329	L1432919-22	1,1,2,2-Tetrachloroethane
WG1779329	L1432919-23	1,1,2,2-Tetrachloroethane
WG1779329	L1432919-24	1,1,2,2-Tetrachloroethane

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1778784	1,2-Dichlorobenzene	L1432919-02



CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260C

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1779329	(LCS) R3733937-1, L1432919-21, 22, 23, 24	Acetone

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1779329	(LCS) R3733937-1, L1432919-21, 22, 23, 24	cis-1,3-Dichloropropene

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:06	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	252000		8450	20000	1	11/24/2021 02:01	WG1778793

Sample Narrative:

L1432919-01 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	11000	T8	150	500	10	11/19/2021 11:26	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/15/2021 17:25	WG1788596

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	141000	T8	20000	1	11/24/2021 02:01	WG1778793

Sample Narrative:

L1432919-01 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:17	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	6730000		37900	100000	100	12/08/2021 23:15	WG1786203
Sulfate	806000		59400	500000	100	12/08/2021 23:15	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5130	B	102	1000	1	11/23/2021 02:43	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5380		18.0	100	1	12/10/2021 02:06	WG1785200
Manganese	1280		0.934	10.0	1	12/10/2021 02:06	WG1785200
Sodium	3690000		5040	30000	10	12/10/2021 10:31	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	88.7		2.91	10.0	1	11/25/2021 14:27	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:27	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:27	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/22/2021 23:51	WG1778784
Benzene	U		0.0941	1.00	1	11/22/2021 23:51	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/22/2021 23:51	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/22/2021 23:51	WG1778784
Bromoform	U		0.129	1.00	1	11/22/2021 23:51	WG1778784
Bromomethane	U		0.605	5.00	1	11/22/2021 23:51	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/22/2021 23:51	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/22/2021 23:51	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/22/2021 23:51	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/22/2021 23:51	WG1778784
Chloroethane	U		0.192	5.00	1	11/22/2021 23:51	WG1778784
Chloroform	U		0.111	5.00	1	11/22/2021 23:51	WG1778784
Chloromethane	U		0.960	2.50	1	11/22/2021 23:51	WG1778784
Cyclohexane	U		0.188	1.00	1	11/22/2021 23:51	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/22/2021 23:51	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/22/2021 23:51	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/22/2021 23:51	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/22/2021 23:51	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/22/2021 23:51	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/22/2021 23:51	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/22/2021 23:51	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/22/2021 23:51	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/22/2021 23:51	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/22/2021 23:51	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/22/2021 23:51	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/22/2021 23:51	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/22/2021 23:51	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/22/2021 23:51	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/22/2021 23:51	WG1778784
2-Hexanone	U		0.787	10.0	1	11/22/2021 23:51	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/22/2021 23:51	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/22/2021 23:51	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/22/2021 23:51	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/22/2021 23:51	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/22/2021 23:51	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/22/2021 23:51	WG1778784
Methyl tert-butyl ether	U		0.101	1.00	1	11/22/2021 23:51	WG1778784
Styrene	U		0.118	1.00	1	11/22/2021 23:51	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/22/2021 23:51	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/22/2021 23:51	WG1778784
Toluene	U		0.278	1.00	1	11/22/2021 23:51	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/22/2021 23:51	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/22/2021 23:51	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/22/2021 23:51	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/22/2021 23:51	WG1778784
Trichloroethene	U		0.190	1.00	1	11/22/2021 23:51	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/22/2021 23:51	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/22/2021 23:51	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/22/2021 23:51	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	11/22/2021 23:51	WG1778784
(S) Toluene-d8	115			80.0-120		11/22/2021 23:51	WG1778784
(S) 4-Bromofluorobenzene	109			77.0-126		11/22/2021 23:51	WG1778784
(S) 1,2-Dichloroethane-d4	100			70.0-130		11/22/2021 23:51	WG1778784

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:09	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	341000		8450	20000	1	11/24/2021 02:21	WG1778793

Sample Narrative:

L1432919-02 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	7950	T8	150	500	10	11/19/2021 11:27	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:00	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	136000	T8	20000	1	11/24/2021 02:21	WG1778793

Sample Narrative:

L1432919-02 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:17	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5880000		37900	100000	100	12/08/2021 23:31	WG1786203
Sulfate	668000		59400	500000	100	12/08/2021 23:31	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5830		102	1000	1	11/23/2021 03:00	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	6620		18.0	100	1	12/10/2021 02:09	WG1785200
Manganese	2020		0.934	10.0	1	12/10/2021 02:09	WG1785200
Sodium	4550000		5040	30000	10	12/10/2021 10:33	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	83.7		2.91	10.0	1	11/25/2021 14:31	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:31	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:31	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 00:12	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 00:12	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 00:12	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 00:12	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 00:12	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 00:12	WG1778784
Carbon disulfide	1.57		0.0962	1.00	1	11/23/2021 00:12	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 00:12	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 00:12	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 00:12	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 00:12	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 00:12	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 00:12	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 00:12	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 00:12	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 00:12	WG1778784
1,2-Dichlorobenzene	0.392	B J	0.107	1.00	1	11/23/2021 00:12	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 00:12	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 00:12	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 00:12	WG1778784
1,1-Dichloroethane	0.180	J	0.100	1.00	1	11/23/2021 00:12	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 00:12	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 00:12	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 00:12	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 00:12	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 00:12	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 00:12	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 00:12	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 00:12	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 00:12	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 00:12	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 00:12	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 00:12	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 00:12	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 00:12	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 00:12	WG1778784
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 00:12	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 00:12	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 00:12	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 00:12	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 00:12	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 00:12	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 00:12	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 00:12	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 00:12	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 00:12	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 00:12	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 00:12	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 00:12	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 00:12	WG1778784
(S) Toluene-d8	114			80.0-120		11/23/2021 00:12	WG1778784
(S) 4-Bromofluorobenzene	111			77.0-126		11/23/2021 00:12	WG1778784
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/23/2021 00:12	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	12/10/2021 02:12	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	320000		8450	20000	1	11/24/2021 02:29	WG1778793

Sample Narrative:

L1432919-03 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	892	T8	15.0	50.0	1	11/19/2021 11:28	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:02	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	J T8		20000	1	11/24/2021 02:29	WG1778793

Sample Narrative:

L1432919-03 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/20/2021 00:14	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	854000		7580	20000	20	12/09/2021 00:04	WG1786203
Sulfate	116000		2970	25000	5	12/08/2021 23:48	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15000	B	510	5000	5	11/23/2021 03:15	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	556		18.0	100	1	12/10/2021 02:12	WG1785200
Manganese	22.4		0.934	10.0	1	12/10/2021 02:12	WG1785200
Sodium	453000		504	3000	1	12/10/2021 02:12	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1400		2.91	10.0	1	11/25/2021 14:35	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:35	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:35	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 06:17	WG1778784
Benzene	0.406	U	0.0941	1.00	1	11/23/2021 06:17	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 06:17	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 06:17	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 06:17	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 06:17	WG1778784
Carbon disulfide	1.19		0.0962	1.00	1	11/23/2021 06:17	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 06:17	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 06:17	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 06:17	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 06:17	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 06:17	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 06:17	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 06:17	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 06:17	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 06:17	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 06:17	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 06:17	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 06:17	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 06:17	WG1778784
1,1-Dichloroethane	0.324	U	0.100	1.00	1	11/23/2021 06:17	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 06:17	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 06:17	WG1778784
cis-1,2-Dichloroethene	0.555	U	0.126	1.00	1	11/23/2021 06:17	WG1778784
trans-1,2-Dichloroethene	0.668	U	0.149	1.00	1	11/23/2021 06:17	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 06:17	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 06:17	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 06:17	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 06:17	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 06:17	WG1778784
Isopropylbenzene	0.209	U	0.105	1.00	1	11/23/2021 06:17	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 06:17	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 06:17	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 06:17	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 06:17	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 06:17	WG1778784
Methyl tert-butyl ether	224		1.01	10.0	10	11/25/2021 04:11	WG1780109
Styrene	U		0.118	1.00	1	11/23/2021 06:17	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 06:17	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 06:17	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 06:17	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 06:17	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 06:17	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 06:17	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 06:17	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 06:17	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 06:17	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 06:17	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 06:17	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	0.180	J	0.174	3.00	1	11/23/2021 06:17	WG1778784
(S) Toluene-d8	109			80.0-120		11/23/2021 06:17	WG1778784
(S) Toluene-d8	112			80.0-120		11/25/2021 04:11	WG1780109
(S) 4-Bromofluorobenzene	112			77.0-126		11/23/2021 06:17	WG1778784
(S) 4-Bromofluorobenzene	101			77.0-126		11/25/2021 04:11	WG1780109
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/23/2021 06:17	WG1778784
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/25/2021 04:11	WG1780109

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:15	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	18900	J	8450	20000	1	11/24/2021 02:34	WG1778793

Sample Narrative:

L1432919-04 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1470	T8	75.0	250	5	11/19/2021 11:31	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	398		50.0	100	1	12/14/2021 14:03	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	J T8		20000	1	11/24/2021 02:34	WG1778793

Sample Narrative:

L1432919-04 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:17	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	172000		1900	5000	5	12/09/2021 01:10	WG1786203
Sulfate	17900		594	5000	1	12/09/2021 00:20	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1540	B	102	1000	1	11/23/2021 13:01	WG1779022

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1130		18.0	100	1	12/10/2021 02:15	WG1785200
Manganese	7.12	J	0.934	10.0	1	12/10/2021 02:15	WG1785200
Sodium	47300		504	3000	1	12/10/2021 02:15	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	47.1		2.91	10.0	1	11/25/2021 14:39	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:39	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:39	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 00:32	WG1778784
Benzene	0.125	U	0.0941	1.00	1	11/23/2021 00:32	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 00:32	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 00:32	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 00:32	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 00:32	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 00:32	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 00:32	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 00:32	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 00:32	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 00:32	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 00:32	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 00:32	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 00:32	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 00:32	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 00:32	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 00:32	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 00:32	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 00:32	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 00:32	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 00:32	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 00:32	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 00:32	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 00:32	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 00:32	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 00:32	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 00:32	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 00:32	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 00:32	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 00:32	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 00:32	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 00:32	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 00:32	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 00:32	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 00:32	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 00:32	WG1778784
Methyl tert-butyl ether	0.249	U	0.101	1.00	1	11/23/2021 00:32	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 00:32	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 00:32	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 00:32	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 00:32	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 00:32	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 00:32	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 00:32	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 00:32	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 00:32	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 00:32	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 00:32	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 00:32	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 00:32	WG1778784
(S) Toluene-d8	113			80.0-120		11/23/2021 00:32	WG1778784
(S) 4-Bromofluorobenzene	110			77.0-126		11/23/2021 00:32	WG1778784
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		11/23/2021 00:32	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:24	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	507000		8450	20000	1	11/24/2021 02:38	WG1778793

Sample Narrative:

L1432919-05 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	13300	T8	450	1500	30	11/19/2021 11:31	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:04	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	53300	T8	20000	1	11/24/2021 02:38	WG1778793

Sample Narrative:

L1432919-05 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/20/2021 00:15	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	16700000		190000	500000	500	12/09/2021 12:18	WG1786203
Sulfate	1820000		59400	500000	100	12/09/2021 01:59	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6070		102	1000	1	11/23/2021 13:35	WG1779022

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	13300		18.0	100	1	12/10/2021 02:24	WG1785200
Manganese	281		0.934	10.0	1	12/10/2021 02:24	WG1785200
Sodium	8640000		5040	30000	10	12/10/2021 10:36	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	42.7		2.91	10.0	1	11/25/2021 14:43	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:43	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:43	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 00:53	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 00:53	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 00:53	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 00:53	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 00:53	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 00:53	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 00:53	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 00:53	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 00:53	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 00:53	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 00:53	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 00:53	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 00:53	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 00:53	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 00:53	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 00:53	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 00:53	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 00:53	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 00:53	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 00:53	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 00:53	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 00:53	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 00:53	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 00:53	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 00:53	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 00:53	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 00:53	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 00:53	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 00:53	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 00:53	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 00:53	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 00:53	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 00:53	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 00:53	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 00:53	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 00:53	WG1778784
Methyl tert-butyl ether	0.562	U	0.101	1.00	1	11/23/2021 00:53	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 00:53	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 00:53	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 00:53	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 00:53	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 00:53	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 00:53	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 00:53	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 00:53	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 00:53	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 00:53	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 00:53	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 00:53	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 00:53	WG1778784
(S) Toluene-d8	110			80.0-120		11/23/2021 00:53	WG1778784
(S) 4-Bromofluorobenzene	111			77.0-126		11/23/2021 00:53	WG1778784
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/23/2021 00:53	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:27	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	640000		8450	20000	1	11/24/2021 02:42	WG1778793

Sample Narrative:

L1432919-06 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	18500	T8	450	1500	30	11/19/2021 11:33	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:05	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	65100	T8	20000	1	11/24/2021 02:42	WG1778793

Sample Narrative:

L1432919-06 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:18	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	77000		1900	5000	5	12/09/2021 02:15	WG1786203
Sulfate	59900		2970	25000	5	12/09/2021 02:15	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16100		102	1000	1	11/23/2021 04:42	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3360		18.0	100	1	12/10/2021 02:27	WG1785200
Manganese	1640		0.934	10.0	1	12/10/2021 02:27	WG1785200
Sodium	108000		504	3000	1	12/10/2021 02:27	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2830		2.91	10.0	1	11/25/2021 14:52	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:52	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:52	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 01:13	WG1778784
Benzene	0.124	J	0.0941	1.00	1	11/23/2021 01:13	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 01:13	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 01:13	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 01:13	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 01:13	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 01:13	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 01:13	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 01:13	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 01:13	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 01:13	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 01:13	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 01:13	WG1778784
Cyclohexane	4.88		0.188	1.00	1	11/23/2021 01:13	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 01:13	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 01:13	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 01:13	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 01:13	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 01:13	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 01:13	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 01:13	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 01:13	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 01:13	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 01:13	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 01:13	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 01:13	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 01:13	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 01:13	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 01:13	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 01:13	WG1778784
Isopropylbenzene	1.62		0.105	1.00	1	11/23/2021 01:13	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 01:13	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 01:13	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 01:13	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 01:13	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 01:13	WG1778784
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 01:13	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 01:13	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 01:13	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 01:13	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 01:13	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 01:13	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 01:13	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 01:13	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 01:13	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 01:13	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 01:13	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 01:13	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 01:13	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 01:13	WG1778784
(S) Toluene-d8	108			80.0-120		11/23/2021 01:13	WG1778784
(S) 4-Bromofluorobenzene	106			77.0-126		11/23/2021 01:13	WG1778784
(S) 1,2-Dichloroethane-d4	99.8			70.0-130		11/23/2021 01:13	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1380		18.0	100	1	12/10/2021 02:30	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	448000		8450	20000	1	11/24/2021 02:47	WG1778793

Sample Narrative:

L1432919-07 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	18600	T8	450	1500	30	11/19/2021 11:34	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:08	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	112000	T8	20000	1	11/24/2021 02:47	WG1778793

Sample Narrative:

L1432919-07 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:18	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	13500000		190000	500000	500	12/09/2021 12:35	WG1786203
Sulfate	1420000		59400	500000	100	12/09/2021 02:48	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7390		102	1000	1	11/23/2021 04:58	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	20000		18.0	100	1	12/10/2021 02:30	WG1785200
Manganese	383		0.934	10.0	1	12/10/2021 02:30	WG1785200
Sodium	8670000		5040	30000	10	12/10/2021 10:39	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	18.4		2.91	10.0	1	11/25/2021 14:58	WG1779876
Ethane	U		4.07	13.0	1	11/25/2021 14:58	WG1779876
Ethene	U		4.26	13.0	1	11/25/2021 14:58	WG1779876

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 01:33	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 01:33	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 01:33	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 01:33	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 01:33	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 01:33	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 01:33	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 01:33	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 01:33	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 01:33	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 01:33	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 01:33	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 01:33	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 01:33	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 01:33	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 01:33	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 01:33	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 01:33	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 01:33	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 01:33	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 01:33	WG1778784
1,2-Dichloroethane	0.293	U	0.0819	1.00	1	11/23/2021 01:33	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 01:33	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 01:33	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 01:33	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 01:33	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 01:33	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 01:33	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 01:33	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 01:33	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 01:33	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 01:33	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 01:33	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 01:33	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 01:33	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 01:33	WG1778784
Methyl tert-butyl ether	0.267	U	0.101	1.00	1	11/23/2021 01:33	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 01:33	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 01:33	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 01:33	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 01:33	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 01:33	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 01:33	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 01:33	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 01:33	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 01:33	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 01:33	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 01:33	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 01:33	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 01:33	WG1778784
(S) Toluene-d8	111			80.0-120		11/23/2021 01:33	WG1778784
(S) 4-Bromofluorobenzene	110			77.0-126		11/23/2021 01:33	WG1778784
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/23/2021 01:33	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	4770		15.0	50.0	1	12/10/2021 02:33	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	810000		8450	20000	1	11/24/2021 02:51	WG1778793

Sample Narrative:

L1432919-08 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1100	T8	15.0	50.0	1	11/19/2021 11:35	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	227		50.0	100	1	12/14/2021 14:09	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	89400	T8	20000	1	11/24/2021 02:51	WG1778793

Sample Narrative:

L1432919-08 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	38.0	J	25.0	50.0	1	11/21/2021 10:18	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4100000		37900	100000	100	12/09/2021 03:21	WG1786203
Sulfate	267000		2970	25000	5	12/09/2021 03:05	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	15600		102	1000	1	11/23/2021 05:19	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	5870		18.0	100	1	12/10/2021 02:33	WG1785200
Manganese	145		0.934	10.0	1	12/10/2021 02:33	WG1785200
Sodium	2310000		2520	15000	5	12/10/2021 11:33	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	255		2.91	10.0	1	11/26/2021 11:01	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:01	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:01	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 01:54	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 01:54	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 01:54	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 01:54	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 01:54	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 01:54	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 01:54	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 01:54	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 01:54	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 01:54	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 01:54	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 01:54	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 01:54	WG1778784
Cyclohexane	0.585	U	0.188	1.00	1	11/23/2021 01:54	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 01:54	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 01:54	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 01:54	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 01:54	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 01:54	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 01:54	WG1778784
1,1-Dichloroethane	0.129	U	0.100	1.00	1	11/23/2021 01:54	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 01:54	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 01:54	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 01:54	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 01:54	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 01:54	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 01:54	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 01:54	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 01:54	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 01:54	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 01:54	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 01:54	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 01:54	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 01:54	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 01:54	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 01:54	WG1778784
Methyl tert-butyl ether	23.6		0.101	1.00	1	11/23/2021 01:54	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 01:54	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 01:54	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 01:54	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 01:54	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 01:54	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 01:54	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 01:54	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 01:54	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 01:54	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 01:54	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 01:54	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 01:54	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 01:54	WG1778784
(S) Toluene-d8	113			80.0-120		11/23/2021 01:54	WG1778784
(S) 4-Bromofluorobenzene	112			77.0-126		11/23/2021 01:54	WG1778784
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/23/2021 01:54	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	201		15.0	50.0	1	12/10/2021 02:35	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	104000		8450	20000	1	11/24/2021 02:56	WG1778793

Sample Narrative:

L1432919-09 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	619	T8	15.0	50.0	1	11/19/2021 11:36	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:14	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	J T8		20000	1	11/24/2021 02:56	WG1778793

Sample Narrative:

L1432919-09 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	30.0	J	25.0	50.0	1	11/20/2021 00:16	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	202000		1900	5000	5	12/09/2021 03:37	WG1786203
Sulfate	230000		2970	25000	5	12/09/2021 03:37	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28600		102	1000	1	11/23/2021 05:48	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	820		18.0	100	1	12/10/2021 02:35	WG1785200
Manganese	43.1		0.934	10.0	1	12/10/2021 02:35	WG1785200
Sodium	108000		504	3000	1	12/10/2021 02:35	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	249		2.91	10.0	1	11/26/2021 11:04	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:04	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:04	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 02:14	WG1778784
Benzene	6.10		0.0941	1.00	1	11/23/2021 02:14	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 02:14	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 02:14	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 02:14	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 02:14	WG1778784
Carbon disulfide	1.38		0.0962	1.00	1	11/23/2021 02:14	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 02:14	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 02:14	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 02:14	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 02:14	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 02:14	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 02:14	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 02:14	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 02:14	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 02:14	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 02:14	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 02:14	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 02:14	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 02:14	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 02:14	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 02:14	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 02:14	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 02:14	WG1778784
trans-1,2-Dichloroethene	0.185	U	0.149	1.00	1	11/23/2021 02:14	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 02:14	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 02:14	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 02:14	WG1778784
Ethylbenzene	1.53		0.137	1.00	1	11/23/2021 02:14	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 02:14	WG1778784
Isopropylbenzene	0.200	U	0.105	1.00	1	11/23/2021 02:14	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 02:14	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 02:14	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 02:14	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 02:14	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 02:14	WG1778784
Methyl tert-butyl ether	7.56		0.101	1.00	1	11/23/2021 02:14	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 02:14	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 02:14	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 02:14	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 02:14	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 02:14	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 02:14	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 02:14	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 02:14	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 02:14	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 02:14	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 02:14	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 02:14	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	1.75	J	0.174	3.00	1	11/23/2021 02:14	WG1778784
(S) Toluene-d8	110			80.0-120		11/23/2021 02:14	WG1778784
(S) 4-Bromofluorobenzene	111			77.0-126		11/23/2021 02:14	WG1778784
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/23/2021 02:14	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 01:54	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	168000		8450	20000	1	11/24/2021 03:12	WG1778793

Sample Narrative:

L1432919-10 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1590	T8	75.0	250	5	11/19/2021 11:39	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1130		50.0	100	1	12/14/2021 14:16	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	J T8	20000	1	11/24/2021 03:12	WG1778793

Sample Narrative:

L1432919-10 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U	J6	25.0	50.0	1	11/21/2021 10:22	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	5590000		37900	100000	100	12/09/2021 04:39	WG1786203
Sulfate	286000		5940	50000	10	12/09/2021 04:22	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6470		102	1000	1	11/23/2021 06:04	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	1310		18.0	100	1	12/10/2021 01:54	WG1785200
Manganese	1300		0.934	10.0	1	12/10/2021 01:54	WG1785200
Sodium	2320000		2520	15000	5	12/10/2021 11:36	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	35.0		2.91	10.0	1	11/26/2021 11:12	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:12	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:12	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 02:34	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 02:34	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 02:34	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 02:34	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 02:34	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 02:34	WG1778784
Carbon disulfide	0.770	J	0.0962	1.00	1	11/23/2021 02:34	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 02:34	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 02:34	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 02:34	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 02:34	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 02:34	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 02:34	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 02:34	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 02:34	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 02:34	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 02:34	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 02:34	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 02:34	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 02:34	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 02:34	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 02:34	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 02:34	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 02:34	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 02:34	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 02:34	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 02:34	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 02:34	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 02:34	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 02:34	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 02:34	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 02:34	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 02:34	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 02:34	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 02:34	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 02:34	WG1778784
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 02:34	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 02:34	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 02:34	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 02:34	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 02:34	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 02:34	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 02:34	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 02:34	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 02:34	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 02:34	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 02:34	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 02:34	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 02:34	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 02:34	WG1778784
(S) Toluene-d8	112			80.0-120		11/23/2021 02:34	WG1778784
(S) 4-Bromofluorobenzene	110			77.0-126		11/23/2021 02:34	WG1778784
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/23/2021 02:34	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		18.0	100	1	12/10/2021 02:38	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	600000		8450	20000	1	11/24/2021 03:16	WG1778793

Sample Narrative:

L1432919-11 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	3980	T8	75.0	250	5	11/19/2021 11:40	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:17	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	72000	T8	20000		1	11/24/2021 03:16	WG1778793

Sample Narrative:

L1432919-11 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:22	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3710000		37900	100000	100	12/09/2021 05:45	WG1786203
Sulfate	309000		5940	50000	10	12/09/2021 05:28	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8840		102	1000	1	11/23/2021 07:43	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2140		18.0	100	1	12/10/2021 02:38	WG1785200
Manganese	1510		0.934	10.0	1	12/10/2021 02:38	WG1785200
Sodium	1710000		2520	15000	5	12/10/2021 11:39	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	421		2.91	10.0	1	11/26/2021 11:16	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:16	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:16	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 02:55	WG1778784
Benzene	0.0984	J	0.0941	1.00	1	11/23/2021 02:55	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 02:55	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 02:55	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 02:55	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 02:55	WG1778784
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 02:55	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 02:55	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 02:55	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 02:55	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 02:55	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 02:55	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 02:55	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 02:55	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 02:55	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 02:55	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 02:55	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 02:55	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 02:55	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 02:55	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 02:55	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 02:55	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 02:55	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 02:55	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 02:55	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 02:55	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 02:55	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 02:55	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 02:55	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 02:55	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 02:55	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 02:55	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 02:55	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 02:55	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 02:55	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 02:55	WG1778784
Methyl tert-butyl ether	18.2		0.101	1.00	1	11/23/2021 02:55	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 02:55	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 02:55	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 02:55	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 02:55	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 02:55	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 02:55	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 02:55	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 02:55	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 02:55	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 02:55	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 02:55	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 02:55	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 02:55	WG1778784
(S) Toluene-d8	113			80.0-120		11/23/2021 02:55	WG1778784
(S) 4-Bromofluorobenzene	109			77.0-126		11/23/2021 02:55	WG1778784
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/23/2021 02:55	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	12/10/2021 02:41	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	490000		8450	20000	1	11/24/2021 03:20	WG1778793

Sample Narrative:

L1432919-12 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	417	T8	15.0	50.0	1	11/19/2021 11:41	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	242		50.0	100	1	12/14/2021 14:18	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	46000	T8	20000	1	11/24/2021 03:20	WG1778793

Sample Narrative:

L1432919-12 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	737		25.0	50.0	1	11/20/2021 00:17	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2990000		37900	100000	100	12/09/2021 06:17	WG1786203
Sulfate	251000		5940	50000	10	12/09/2021 06:01	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7440		102	1000	1	11/23/2021 08:01	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	362		18.0	100	1	12/10/2021 02:41	WG1785200
Manganese	166		0.934	10.0	1	12/10/2021 02:41	WG1785200
Sodium	1450000		2520	15000	5	12/10/2021 11:41	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	156		2.91	10.0	1	11/26/2021 11:20	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:20	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:20	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 03:15	WG1778784
Benzene	0.538	U	0.0941	1.00	1	11/23/2021 03:15	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 03:15	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 03:15	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 03:15	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 03:15	WG1778784
Carbon disulfide	0.885	U	0.0962	1.00	1	11/23/2021 03:15	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 03:15	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 03:15	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 03:15	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 03:15	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 03:15	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 03:15	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 03:15	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 03:15	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 03:15	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 03:15	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 03:15	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 03:15	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 03:15	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 03:15	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 03:15	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 03:15	WG1778784
cis-1,2-Dichloroethene	0.161	U	0.126	1.00	1	11/23/2021 03:15	WG1778784
trans-1,2-Dichloroethene	0.367	U	0.149	1.00	1	11/23/2021 03:15	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 03:15	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 03:15	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 03:15	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 03:15	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 03:15	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 03:15	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 03:15	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 03:15	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 03:15	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 03:15	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 03:15	WG1778784
Methyl tert-butyl ether	62.0		0.101	1.00	1	11/23/2021 03:15	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 03:15	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 03:15	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 03:15	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 03:15	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 03:15	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 03:15	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 03:15	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 03:15	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 03:15	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 03:15	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 03:15	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 03:15	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 03:15	WG1778784
(S) Toluene-d8	113			80.0-120		11/23/2021 03:15	WG1778784
(S) 4-Bromofluorobenzene	108			77.0-126		11/23/2021 03:15	WG1778784
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/23/2021 03:15	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	376		15.0	50.0	1	12/10/2021 02:44	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	350000		8450	20000	1	11/24/2021 03:25	WG1778793

Sample Narrative:

L1432919-13 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	208	T8	15.0	50.0	1	11/19/2021 11:42	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 14:19	WG1788525

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	11/24/2021 03:25	WG1778793

Sample Narrative:

L1432919-13 WG1778793: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:23	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	621000		3790	10000	10	12/09/2021 07:07	WG1786203
Sulfate	78100		594	5000	1	12/09/2021 06:34	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	25400		102	1000	1	11/23/2021 08:43	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	584		18.0	100	1	12/10/2021 02:44	WG1785200
Manganese	8.71	J	0.934	10.0	1	12/10/2021 02:44	WG1785200
Sodium	479000		504	3000	1	12/10/2021 02:44	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1910		2.91	10.0	1	11/26/2021 11:25	WG1779877
Ethane	16.5		4.07	13.0	1	11/26/2021 11:25	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:25	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	60.5	C3	11.3	50.0	1	11/23/2021 03:35	WG1778784
Benzene	9.89		0.0941	1.00	1	11/23/2021 03:35	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 03:35	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 03:35	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 03:35	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 03:35	WG1778784
Carbon disulfide	2.96		0.0962	1.00	1	11/23/2021 03:35	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 03:35	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 03:35	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 03:35	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 03:35	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 03:35	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 03:35	WG1778784
Cyclohexane	0.861	U	0.188	1.00	1	11/23/2021 03:35	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 03:35	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 03:35	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 03:35	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 03:35	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 03:35	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 03:35	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 03:35	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 03:35	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 03:35	WG1778784
cis-1,2-Dichloroethene	12.1		0.126	1.00	1	11/23/2021 03:35	WG1778784
trans-1,2-Dichloroethene	0.499	U	0.149	1.00	1	11/23/2021 03:35	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 03:35	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 03:35	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 03:35	WG1778784
Ethylbenzene	1.57		0.137	1.00	1	11/23/2021 03:35	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 03:35	WG1778784
Isopropylbenzene	0.435	U	0.105	1.00	1	11/23/2021 03:35	WG1778784
2-Butanone (MEK)	16.2		1.19	10.0	1	11/23/2021 03:35	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 03:35	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 03:35	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 03:35	WG1778784
4-Methyl-2-pentanone (MIBK)	0.843	U	0.478	10.0	1	11/23/2021 03:35	WG1778784
Methyl tert-butyl ether	61.7		0.101	1.00	1	11/23/2021 03:35	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 03:35	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 03:35	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 03:35	WG1778784
Toluene	1.99		0.278	1.00	1	11/23/2021 03:35	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 03:35	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 03:35	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 03:35	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 03:35	WG1778784
Trichloroethene	45.7		0.190	1.00	1	11/23/2021 03:35	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 03:35	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 03:35	WG1778784
Vinyl chloride	5.59		0.234	1.00	1	11/23/2021 03:35	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	3.66		0.174	3.00	1	11/23/2021 03:35	WG1778784
(S) Toluene-d8	112			80.0-120		11/23/2021 03:35	WG1778784
(S) 4-Bromofluorobenzene	111			77.0-126		11/23/2021 03:35	WG1778784
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/23/2021 03:35	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	1780		15.0	50.0	1	12/10/2021 02:47	WG1785200

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	275000		8450	20000	1	11/24/2021 02:13	WG1778864

Sample Narrative:

L1432919-14 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1290	T8	15.0	50.0	1	11/19/2021 11:44	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	240		50.0	100	1	12/14/2021 16:42	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	39100	B T8	20000	1	11/24/2021 02:13	WG1778864

Sample Narrative:

L1432919-14 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:23	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	1390000		37900	100000	100	12/09/2021 07:39	WG1786203
Sulfate	177000		2970	25000	5	12/09/2021 07:23	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	9360		102	1000	1	11/23/2021 09:02	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3070		18.0	100	1	12/10/2021 02:47	WG1785200
Manganese	1120		0.934	10.0	1	12/10/2021 02:47	WG1785200
Sodium	770000		504	3000	1	12/10/2021 02:47	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	225		2.91	10.0	1	11/26/2021 11:31	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:31	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:31	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 03:56	WG1778784
Benzene	U		0.0941	1.00	1	11/23/2021 03:56	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 03:56	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 03:56	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 03:56	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 03:56	WG1778784
Carbon disulfide	1.06		0.0962	1.00	1	11/23/2021 03:56	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 03:56	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 03:56	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 03:56	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 03:56	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 03:56	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 03:56	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 03:56	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 03:56	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 03:56	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 03:56	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 03:56	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 03:56	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 03:56	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 03:56	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 03:56	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 03:56	WG1778784
cis-1,2-Dichloroethene	0.529	U	0.126	1.00	1	11/23/2021 03:56	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 03:56	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 03:56	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 03:56	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 03:56	WG1778784
Ethylbenzene	U		0.137	1.00	1	11/23/2021 03:56	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 03:56	WG1778784
Isopropylbenzene	0.368	U	0.105	1.00	1	11/23/2021 03:56	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 03:56	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 03:56	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 03:56	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 03:56	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 03:56	WG1778784
Methyl tert-butyl ether	95.3		0.101	1.00	1	11/23/2021 03:56	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 03:56	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 03:56	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 03:56	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 03:56	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 03:56	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 03:56	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 03:56	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 03:56	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 03:56	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 03:56	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 03:56	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 03:56	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	U		0.174	3.00	1	11/23/2021 03:56	WG1778784
(S) Toluene-d8	111			80.0-120		11/23/2021 03:56	WG1778784
(S) 4-Bromofluorobenzene	112			77.0-126		11/23/2021 03:56	WG1778784
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/23/2021 03:56	WG1778784

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	394		15.0	50.0	1	12/10/2021 02:50	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	494000		8450	20000	1	11/24/2021 02:21	WG1778864

Sample Narrative:

L1432919-15 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	218	T8	15.0	50.0	1	11/19/2021 11:45	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:43	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	25200	B T8		20000	1	11/24/2021 02:21	WG1778864

Sample Narrative:

L1432919-15 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	12600		500	1000	20	11/21/2021 10:27	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2140000		37900	100000	100	12/09/2021 08:45	WG1786203
Sulfate	108000		5940	50000	10	12/09/2021 07:56	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	30000		510	5000	5	11/23/2021 09:25	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	612		18.0	100	1	12/10/2021 02:50	WG1785200
Manganese	17.9		0.934	10.0	1	12/10/2021 02:50	WG1785200
Sodium	1230000		2520	15000	5	12/10/2021 11:44	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1380		2.91	10.0	1	11/26/2021 11:38	WG1779877
Ethane	198		4.07	13.0	1	11/26/2021 11:38	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 11:38	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 04:16	WG1778784
Benzene	6.78		0.0941	1.00	1	11/23/2021 04:16	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 04:16	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 04:16	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 04:16	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 04:16	WG1778784
Carbon disulfide	1.42		0.0962	1.00	1	11/23/2021 04:16	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 04:16	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 04:16	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 04:16	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 04:16	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 04:16	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 04:16	WG1778784
Cyclohexane	1.55		0.188	1.00	1	11/23/2021 04:16	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 04:16	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 04:16	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 04:16	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 04:16	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 04:16	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 04:16	WG1778784
1,1-Dichloroethane	0.665	U	0.100	1.00	1	11/23/2021 04:16	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 04:16	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 04:16	WG1778784
cis-1,2-Dichloroethene	0.229	U	0.126	1.00	1	11/23/2021 04:16	WG1778784
trans-1,2-Dichloroethene	5.81		0.149	1.00	1	11/23/2021 04:16	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 04:16	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 04:16	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 04:16	WG1778784
Ethylbenzene	5.19		0.137	1.00	1	11/23/2021 04:16	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 04:16	WG1778784
Isopropylbenzene	0.709	U	0.105	1.00	1	11/23/2021 04:16	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 04:16	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 04:16	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 04:16	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 04:16	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 04:16	WG1778784
Methyl tert-butyl ether	149		0.101	1.00	1	11/23/2021 04:16	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 04:16	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 04:16	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 04:16	WG1778784
Toluene	0.392	U	0.278	1.00	1	11/23/2021 04:16	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 04:16	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 04:16	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 04:16	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 04:16	WG1778784
Trichloroethene	0.265	U	0.190	1.00	1	11/23/2021 04:16	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 04:16	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 04:16	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 04:16	WG1778784

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 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	2.26	J	0.174	3.00	1	11/23/2021 04:16	WG1778784
(S) Toluene-d8	110			80.0-120		11/23/2021 04:16	WG1778784
(S) 4-Bromofluorobenzene	108			77.0-126		11/23/2021 04:16	WG1778784
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/23/2021 04:16	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	406		15.0	50.0	1	12/10/2021 01:28	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	764000		8450	20000	1	11/24/2021 02:26	WG1778864

Sample Narrative:

L1432919-16 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	278	T8	15.0	50.0	1	11/19/2021 11:45	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/15/2021 17:26	WG1788596

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	94500	B T8	20000	1	11/24/2021 02:26	WG1778864

Sample Narrative:

L1432919-16 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	49.0	J	25.0	50.0	1	11/21/2021 10:28	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	4260000		37900	100000	100	12/09/2021 09:18	WG1786203
Sulfate	304000		5940	50000	10	12/09/2021 09:02	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14500	B	510	5000	5	11/23/2021 09:39	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	684		18.0	100	1	12/10/2021 01:28	WG1785200
Manganese	57.9		0.934	10.0	1	12/10/2021 01:28	WG1785200
Sodium	2270000		2520	15000	5	12/10/2021 11:47	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	361		2.91	10.0	1	11/26/2021 11:43	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 11:43	WG1779877
Ethene	10.7	<u>U</u>	4.26	13.0	1	11/26/2021 11:43	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>C3</u>	11.3	50.0	1	11/23/2021 04:36	WG1778784
Benzene	5.67		0.0941	1.00	1	11/23/2021 04:36	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 04:36	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 04:36	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 04:36	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 04:36	WG1778784
Carbon disulfide	1.34		0.0962	1.00	1	11/23/2021 04:36	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 04:36	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 04:36	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 04:36	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 04:36	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 04:36	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 04:36	WG1778784
Cyclohexane	0.673	<u>U</u>	0.188	1.00	1	11/23/2021 04:36	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 04:36	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 04:36	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 04:36	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 04:36	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 04:36	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 04:36	WG1778784
1,1-Dichloroethane	0.353	<u>U</u>	0.100	1.00	1	11/23/2021 04:36	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 04:36	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 04:36	WG1778784
cis-1,2-Dichloroethene	1.10		0.126	1.00	1	11/23/2021 04:36	WG1778784
trans-1,2-Dichloroethene	3.89		0.149	1.00	1	11/23/2021 04:36	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 04:36	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 04:36	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 04:36	WG1778784
Ethylbenzene	0.722	<u>U</u>	0.137	1.00	1	11/23/2021 04:36	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 04:36	WG1778784
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 04:36	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 04:36	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 04:36	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 04:36	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 04:36	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 04:36	WG1778784
Methyl tert-butyl ether	37.6		0.101	1.00	1	11/23/2021 04:36	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 04:36	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 04:36	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 04:36	WG1778784
Toluene	1.20		0.278	1.00	1	11/23/2021 04:36	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 04:36	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 04:36	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 04:36	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 04:36	WG1778784
Trichloroethene	0.355	<u>U</u>	0.190	1.00	1	11/23/2021 04:36	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 04:36	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 04:36	WG1778784
Vinyl chloride	43.7		0.234	1.00	1	11/23/2021 04:36	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	1.67	J	0.174	3.00	1	11/23/2021 04:36	WG1778784
(S) Toluene-d8	114			80.0-120		11/23/2021 04:36	WG1778784
(S) 4-Bromofluorobenzene	112			77.0-126		11/23/2021 04:36	WG1778784
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/23/2021 04:36	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	183		15.0	50.0	1	12/10/2021 01:31	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	418000		8450	20000	1	11/24/2021 02:30	WG1778864

Sample Narrative:

L1432919-17 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	152	T8	15.0	50.0	1	11/19/2021 11:47	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:45	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	53000	B T8		20000	1	11/24/2021 02:30	WG1778864

Sample Narrative:

L1432919-17 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:29	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2290000		37900	100000	100	12/09/2021 09:51	WG1786203
Sulfate	266000		5940	50000	10	12/09/2021 09:34	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	30000		510	5000	5	11/23/2021 09:55	WG1778501

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	335		18.0	100	1	12/10/2021 01:31	WG1785200
Manganese	17.9		0.934	10.0	1	12/10/2021 01:31	WG1785200
Sodium	1320000		2520	15000	5	12/10/2021 11:50	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	872		2.91	10.0	1	11/26/2021 11:52	WG1779877
Ethane	7.03	U	4.07	13.0	1	11/26/2021 11:52	WG1779877
Ethene	8.37	U	4.26	13.0	1	11/26/2021 11:52	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 04:56	WG1778784
Benzene	5.60		0.0941	1.00	1	11/23/2021 04:56	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 04:56	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 04:56	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 04:56	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 04:56	WG1778784
Carbon disulfide	1.38		0.0962	1.00	1	11/23/2021 04:56	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 04:56	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 04:56	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 04:56	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 04:56	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 04:56	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 04:56	WG1778784
Cyclohexane	U		0.188	1.00	1	11/23/2021 04:56	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 04:56	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 04:56	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 04:56	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 04:56	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 04:56	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 04:56	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 04:56	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 04:56	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 04:56	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 04:56	WG1778784
trans-1,2-Dichloroethene	1.65		0.149	1.00	1	11/23/2021 04:56	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 04:56	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 04:56	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 04:56	WG1778784
Ethylbenzene	0.947	U	0.137	1.00	1	11/23/2021 04:56	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 04:56	WG1778784
Isopropylbenzene	0.509	U	0.105	1.00	1	11/23/2021 04:56	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 04:56	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 04:56	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 04:56	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 04:56	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 04:56	WG1778784
Methyl tert-butyl ether	75.6		0.101	1.00	1	11/23/2021 04:56	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 04:56	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 04:56	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 04:56	WG1778784
Toluene	U		0.278	1.00	1	11/23/2021 04:56	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 04:56	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 04:56	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 04:56	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 04:56	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 04:56	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 04:56	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 04:56	WG1778784
Vinyl chloride	6.74		0.234	1.00	1	11/23/2021 04:56	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	1.37	J	0.174	3.00	1	11/23/2021 04:56	WG1778784
(S) Toluene-d8	112			80.0-120		11/23/2021 04:56	WG1778784
(S) 4-Bromofluorobenzene	113			77.0-126		11/23/2021 04:56	WG1778784
(S) 1,2-Dichloroethane-d4	101			70.0-130		11/23/2021 04:56	WG1778784

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	4370		15.0	50.0	1	12/10/2021 01:34	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	674000		8450	20000	1	11/24/2021 02:34	WG1778864

Sample Narrative:

L1432919-18 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	190	T8	15.0	50.0	1	11/19/2021 11:49	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:46	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	60800	B T8		20000	1	11/24/2021 02:34	WG1778864

Sample Narrative:

L1432919-18 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	32.0	J	25.0	50.0	1	11/21/2021 10:29	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	3010000		37900	100000	100	12/09/2021 10:24	WG1786203
Sulfate	269000		5940	50000	10	12/09/2021 10:07	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	40100		510	5000	5	11/22/2021 14:16	WG1778504

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	4560		18.0	100	1	12/10/2021 01:34	WG1785200
Manganese	38.6		0.934	10.0	1	12/10/2021 01:34	WG1785200
Sodium	1180000		2520	15000	5	12/10/2021 11:53	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	777		2.91	10.0	1	11/26/2021 12:09	WG1779877
Ethane	14.6		4.07	13.0	1	11/26/2021 12:09	WG1779877
Ethene	102		4.26	13.0	1	11/26/2021 12:09	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 05:17	WG1778784
Benzene	2.10		0.0941	1.00	1	11/23/2021 05:17	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 05:17	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 05:17	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 05:17	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 05:17	WG1778784
Carbon disulfide	1.66		0.0962	1.00	1	11/23/2021 05:17	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 05:17	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 05:17	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 05:17	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 05:17	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 05:17	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 05:17	WG1778784
Cyclohexane	1.16		0.188	1.00	1	11/23/2021 05:17	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 05:17	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 05:17	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 05:17	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 05:17	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 05:17	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 05:17	WG1778784
1,1-Dichloroethane	0.440	U	0.100	1.00	1	11/23/2021 05:17	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 05:17	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 05:17	WG1778784
cis-1,2-Dichloroethene	0.227	U	0.126	1.00	1	11/23/2021 05:17	WG1778784
trans-1,2-Dichloroethene	14.6		0.149	1.00	1	11/23/2021 05:17	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 05:17	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 05:17	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 05:17	WG1778784
Ethylbenzene	2.18		0.137	1.00	1	11/23/2021 05:17	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 05:17	WG1778784
Isopropylbenzene	0.516	U	0.105	1.00	1	11/23/2021 05:17	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 05:17	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 05:17	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 05:17	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 05:17	WG1778784
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 05:17	WG1778784
Methyl tert-butyl ether	55.8		0.101	1.00	1	11/23/2021 05:17	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 05:17	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 05:17	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 05:17	WG1778784
Toluene	0.313	U	0.278	1.00	1	11/23/2021 05:17	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 05:17	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 05:17	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 05:17	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 05:17	WG1778784
Trichloroethene	0.369	U	0.190	1.00	1	11/23/2021 05:17	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 05:17	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 05:17	WG1778784
Vinyl chloride	10.4		0.234	1.00	1	11/23/2021 05:17	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	2.95	J	0.174	3.00	1	11/23/2021 05:17	WG1778784
(S) Toluene-d8	111			80.0-120		11/23/2021 05:17	WG1778784
(S) 4-Bromofluorobenzene	117			77.0-126		11/23/2021 05:17	WG1778784
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/23/2021 05:17	WG1778784

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	956		15.0	50.0	1	12/10/2021 01:37	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	413000		8450	20000	1	11/24/2021 02:39	WG1778864

Sample Narrative:

L1432919-19 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	2440	T8	15.0	50.0	1	11/19/2021 11:51	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:47	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	B J T8	20000	1	11/24/2021 02:39	WG1778864

Sample Narrative:

L1432919-19 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	236		25.0	50.0	1	11/20/2021 00:17	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2300000		37900	100000	100	12/09/2021 10:56	WG1786203
Sulfate	285000		5940	50000	10	12/09/2021 10:40	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	37700		510	5000	5	11/22/2021 14:36	WG1778504

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3390		18.0	100	1	12/10/2021 01:37	WG1785200
Manganese	294		0.934	10.0	1	12/10/2021 01:37	WG1785200
Sodium	1370000		2520	15000	5	12/10/2021 11:56	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1280		2.91	10.0	1	11/26/2021 12:15	WG1779877
Ethane	70.5		4.07	13.0	1	11/26/2021 12:15	WG1779877
Ethene	20.2		4.26	13.0	1	11/26/2021 12:15	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	C3	11.3	50.0	1	11/23/2021 05:37	WG1778784
Benzene	8.94		0.0941	1.00	1	11/23/2021 05:37	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 05:37	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 05:37	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 05:37	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 05:37	WG1778784
Carbon disulfide	2.66		0.0962	1.00	1	11/23/2021 05:37	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 05:37	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 05:37	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 05:37	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 05:37	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 05:37	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 05:37	WG1778784
Cyclohexane	0.881	U	0.188	1.00	1	11/23/2021 05:37	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 05:37	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 05:37	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 05:37	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 05:37	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 05:37	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 05:37	WG1778784
1,1-Dichloroethane	0.327	U	0.100	1.00	1	11/23/2021 05:37	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 05:37	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 05:37	WG1778784
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 05:37	WG1778784
trans-1,2-Dichloroethene	10.9		0.149	1.00	1	11/23/2021 05:37	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 05:37	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 05:37	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 05:37	WG1778784
Ethylbenzene	5.98		0.137	1.00	1	11/23/2021 05:37	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 05:37	WG1778784
Isopropylbenzene	0.729	U	0.105	1.00	1	11/23/2021 05:37	WG1778784
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 05:37	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 05:37	WG1778784
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 05:37	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 05:37	WG1778784
4-Methyl-2-pentanone (MIBK)	0.529	U	0.478	10.0	1	11/23/2021 05:37	WG1778784
Methyl tert-butyl ether	199		0.101	1.00	1	11/23/2021 05:37	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 05:37	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 05:37	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 05:37	WG1778784
Toluene	0.583	U	0.278	1.00	1	11/23/2021 05:37	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 05:37	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 05:37	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 05:37	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 05:37	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 05:37	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 05:37	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 05:37	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 05:37	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	12.6		0.174	3.00	1	11/23/2021 05:37	WG1778784
(S) Toluene-d8	110			80.0-120		11/23/2021 05:37	WG1778784
(S) 4-Bromofluorobenzene	114			77.0-126		11/23/2021 05:37	WG1778784
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/23/2021 05:37	WG1778784

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	12/10/2021 01:40	WG1785200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	199000		8450	20000	1	11/24/2021 02:43	WG1778864

Sample Narrative:

L1432919-20 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	1050	T8	15.0	50.0	1	11/19/2021 11:52	WG1777138

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:48	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	30800	B T8		20000	1	11/24/2021 02:43	WG1778864

Sample Narrative:

L1432919-20 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	28.0	J	25.0	50.0	1	11/21/2021 10:29	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	853000		7580	20000	20	12/09/2021 12:02	WG1786203
Sulfate	106000		11900	100000	20	12/09/2021 12:02	WG1786203

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	64400		510	5000	5	11/22/2021 14:56	WG1778504

Metals (ICP) by Method 6010C

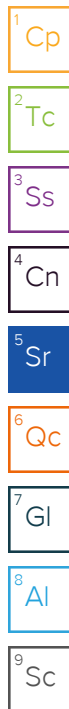
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	553		18.0	100	1	12/10/2021 01:40	WG1785200
Manganese	42.6		0.934	10.0	1	12/10/2021 01:40	WG1785200
Sodium	507000		504	3000	1	12/10/2021 01:40	WG1785200

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	2660		2.91	10.0	1	11/26/2021 12:19	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 12:19	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 12:19	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	16.2	C3 J	11.3	50.0	1	11/23/2021 05:57	WG1778784
Benzene	45.3		0.0941	1.00	1	11/23/2021 05:57	WG1778784
Bromochloromethane	U		0.128	1.00	1	11/23/2021 05:57	WG1778784
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 05:57	WG1778784
Bromoform	U		0.129	1.00	1	11/23/2021 05:57	WG1778784
Bromomethane	U		0.605	5.00	1	11/23/2021 05:57	WG1778784
Carbon disulfide	1.98		0.0962	1.00	1	11/23/2021 05:57	WG1778784
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 05:57	WG1778784
Chlorobenzene	U		0.116	1.00	1	11/23/2021 05:57	WG1778784
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 05:57	WG1778784
Chloroethane	U		0.192	5.00	1	11/23/2021 05:57	WG1778784
Chloroform	U		0.111	5.00	1	11/23/2021 05:57	WG1778784
Chloromethane	U		0.960	2.50	1	11/23/2021 05:57	WG1778784
Cyclohexane	6.05		0.188	1.00	1	11/23/2021 05:57	WG1778784
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 05:57	WG1778784
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 05:57	WG1778784
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 05:57	WG1778784
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 05:57	WG1778784
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 05:57	WG1778784
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 05:57	WG1778784
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 05:57	WG1778784
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 05:57	WG1778784
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 05:57	WG1778784
cis-1,2-Dichloroethene	0.357	U J	0.126	1.00	1	11/23/2021 05:57	WG1778784
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 05:57	WG1778784
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 05:57	WG1778784
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/23/2021 05:57	WG1778784
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 05:57	WG1778784
Ethylbenzene	1.35		0.137	1.00	1	11/23/2021 05:57	WG1778784
2-Hexanone	U		0.787	10.0	1	11/23/2021 05:57	WG1778784
Isopropylbenzene	5.95		0.105	1.00	1	11/23/2021 05:57	WG1778784
2-Butanone (MEK)	5.30	U J	1.19	10.0	1	11/23/2021 05:57	WG1778784
Methyl Acetate	U		1.29	20.0	1	11/23/2021 05:57	WG1778784
Methyl Cyclohexane	5.60		0.660	1.00	1	11/23/2021 05:57	WG1778784
Methylene Chloride	U		0.430	5.00	1	11/23/2021 05:57	WG1778784
4-Methyl-2-pentanone (MIBK)	1.95	U J	0.478	10.0	1	11/23/2021 05:57	WG1778784
Methyl tert-butyl ether	26.5		0.101	1.00	1	11/23/2021 05:57	WG1778784
Styrene	U		0.118	1.00	1	11/23/2021 05:57	WG1778784
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/23/2021 05:57	WG1778784
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 05:57	WG1778784
Toluene	3.83		0.278	1.00	1	11/23/2021 05:57	WG1778784
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 05:57	WG1778784
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 05:57	WG1778784
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 05:57	WG1778784
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 05:57	WG1778784
Trichloroethene	U		0.190	1.00	1	11/23/2021 05:57	WG1778784
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 05:57	WG1778784
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 05:57	WG1778784
Vinyl chloride	U		0.234	1.00	1	11/23/2021 05:57	WG1778784



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	7.81		0.174	3.00	1	11/23/2021 05:57	WG1778784
(S) Toluene-d8	110			80.0-120		11/23/2021 05:57	WG1778784
(S) 4-Bromofluorobenzene	113			77.0-126		11/23/2021 05:57	WG1778784
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/23/2021 05:57	WG1778784

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	12900		15.0	50.0	1	12/10/2021 05:45	WG1785195

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	313000		8450	20000	1	11/24/2021 02:48	WG1778864

Sample Narrative:

L1432919-21 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	2210	T8	15.0	50.0	1	11/21/2021 15:35	WG1776691

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:53	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	32300	B T8	20000		1	11/24/2021 02:48	WG1778864

Sample Narrative:

L1432919-21 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/20/2021 00:18	WG1777670

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2500000		37900	100000	100	12/09/2021 00:05	WG1786205
Sulfate	480000		5940	50000	10	12/08/2021 23:49	WG1786205

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	41000		510	5000	5	11/22/2021 15:16	WG1778504

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	15100		18.0	100	1	12/10/2021 05:45	WG1785195
Manganese	290		0.934	10.0	1	12/10/2021 05:45	WG1785195
Sodium	1390000		2520	15000	5	12/10/2021 08:06	WG1785195

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	1390		2.91	10.0	1	11/26/2021 12:24	WG1779877
Ethane	78.5		4.07	13.0	1	11/26/2021 12:24	WG1779877
Ethene	21.8		4.26	13.0	1	11/26/2021 12:24	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	11/23/2021 20:33	WG1779329
Benzene	8.91		0.0941	1.00	1	11/23/2021 20:33	WG1779329
Bromochloromethane	U		0.128	1.00	1	11/23/2021 20:33	WG1779329
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 20:33	WG1779329
Bromoform	U		0.129	1.00	1	11/23/2021 20:33	WG1779329
Bromomethane	U		0.605	5.00	1	11/23/2021 20:33	WG1779329
Carbon disulfide	1.36		0.0962	1.00	1	11/23/2021 20:33	WG1779329
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 20:33	WG1779329
Chlorobenzene	U		0.116	1.00	1	11/23/2021 20:33	WG1779329
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 20:33	WG1779329
Chloroethane	U		0.192	5.00	1	11/23/2021 20:33	WG1779329
Chloroform	U		0.111	5.00	1	11/23/2021 20:33	WG1779329
Chloromethane	U		0.960	2.50	1	11/23/2021 20:33	WG1779329
Cyclohexane	0.353	U	0.188	1.00	1	11/23/2021 20:33	WG1779329
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 20:33	WG1779329
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 20:33	WG1779329
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 20:33	WG1779329
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 20:33	WG1779329
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 20:33	WG1779329
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 20:33	WG1779329
1,1-Dichloroethane	0.365	U	0.100	1.00	1	11/23/2021 20:33	WG1779329
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 20:33	WG1779329
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 20:33	WG1779329
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 20:33	WG1779329
trans-1,2-Dichloroethene	9.11		0.149	1.00	1	11/23/2021 20:33	WG1779329
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 20:33	WG1779329
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	11/23/2021 20:33	WG1779329
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 20:33	WG1779329
Ethylbenzene	6.64		0.137	1.00	1	11/23/2021 20:33	WG1779329
2-Hexanone	U		0.787	10.0	1	11/23/2021 20:33	WG1779329
Isopropylbenzene	0.703	U	0.105	1.00	1	11/23/2021 20:33	WG1779329
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 20:33	WG1779329
Methyl Acetate	U		1.29	20.0	1	11/23/2021 20:33	WG1779329
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 20:33	WG1779329
Methylene Chloride	U		0.430	5.00	1	11/23/2021 20:33	WG1779329
4-Methyl-2-pentanone (MIBK)	0.584	U	0.478	10.0	1	11/23/2021 20:33	WG1779329
Methyl tert-butyl ether	185		0.101	1.00	1	11/23/2021 20:33	WG1779329
Styrene	U		0.118	1.00	1	11/23/2021 20:33	WG1779329
1,1,2,2-Tetrachloroethane	U	C3	0.133	1.00	1	11/23/2021 20:33	WG1779329
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 20:33	WG1779329
Toluene	0.620	U	0.278	1.00	1	11/23/2021 20:33	WG1779329
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 20:33	WG1779329
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 20:33	WG1779329
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 20:33	WG1779329
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 20:33	WG1779329
Trichloroethene	0.208	U	0.190	1.00	1	11/23/2021 20:33	WG1779329
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 20:33	WG1779329
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 20:33	WG1779329
Vinyl chloride	0.391	U	0.234	1.00	1	11/23/2021 20:33	WG1779329



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Xylenes, Total	12.3		0.174	3.00	1	11/23/2021 20:33	WG1779329
(S) Toluene-d8	114			80.0-120		11/23/2021 20:33	WG1779329
(S) 4-Bromofluorobenzene	102			77.0-126		11/23/2021 20:33	WG1779329
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/23/2021 20:33	WG1779329

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	12/10/2021 05:48	WG1785195

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		8450	20000	1	11/24/2021 03:06	WG1778864

Sample Narrative:

L1432919-22 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	U	T8	15.0	50.0	1	11/21/2021 15:36	WG1776691

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/14/2021 16:55	WG1788595

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	B J T8	20000	1	11/24/2021 03:06	WG1778864

Sample Narrative:

L1432919-22 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:30	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		379	1000	1	12/09/2021 00:21	WG1786205
Sulfate	U		594	5000	1	12/09/2021 00:21	WG1786205

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	403	B J	102	1000	1	11/22/2021 15:46	WG1778504

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		18.0	100	1	12/10/2021 05:48	WG1785195
Manganese	U		0.934	10.0	1	12/10/2021 05:48	WG1785195
Sodium	829	J	504	3000	1	12/10/2021 05:48	WG1785195

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methane	U		2.91	10.0	1	11/26/2021 12:28	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 12:28	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 12:28	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	11/23/2021 18:36	WG1779329
Benzene	U		0.0941	1.00	1	11/23/2021 18:36	WG1779329
Bromochloromethane	U		0.128	1.00	1	11/23/2021 18:36	WG1779329
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 18:36	WG1779329
Bromoform	U		0.129	1.00	1	11/23/2021 18:36	WG1779329
Bromomethane	U		0.605	5.00	1	11/23/2021 18:36	WG1779329
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 18:36	WG1779329
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 18:36	WG1779329
Chlorobenzene	U		0.116	1.00	1	11/23/2021 18:36	WG1779329
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 18:36	WG1779329
Chloroethane	U		0.192	5.00	1	11/23/2021 18:36	WG1779329
Chloroform	U		0.111	5.00	1	11/23/2021 18:36	WG1779329
Chloromethane	U		0.960	2.50	1	11/23/2021 18:36	WG1779329
Cyclohexane	U		0.188	1.00	1	11/23/2021 18:36	WG1779329
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 18:36	WG1779329
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 18:36	WG1779329
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 18:36	WG1779329
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 18:36	WG1779329
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 18:36	WG1779329
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 18:36	WG1779329
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 18:36	WG1779329
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 18:36	WG1779329
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 18:36	WG1779329
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 18:36	WG1779329
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 18:36	WG1779329
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 18:36	WG1779329
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	11/23/2021 18:36	WG1779329
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 18:36	WG1779329
Ethylbenzene	U		0.137	1.00	1	11/23/2021 18:36	WG1779329
2-Hexanone	U		0.787	10.0	1	11/23/2021 18:36	WG1779329
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 18:36	WG1779329
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 18:36	WG1779329
Methyl Acetate	U		1.29	20.0	1	11/23/2021 18:36	WG1779329
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 18:36	WG1779329
Methylene Chloride	U		0.430	5.00	1	11/23/2021 18:36	WG1779329
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 18:36	WG1779329
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 18:36	WG1779329
Styrene	U		0.118	1.00	1	11/23/2021 18:36	WG1779329
1,1,2,2-Tetrachloroethane	U	C3	0.133	1.00	1	11/23/2021 18:36	WG1779329
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 18:36	WG1779329
Toluene	U		0.278	1.00	1	11/23/2021 18:36	WG1779329
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 18:36	WG1779329
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 18:36	WG1779329
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 18:36	WG1779329
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 18:36	WG1779329
Trichloroethene	U		0.190	1.00	1	11/23/2021 18:36	WG1779329
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 18:36	WG1779329
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 18:36	WG1779329
Vinyl chloride	U		0.234	1.00	1	11/23/2021 18:36	WG1779329

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 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 18:36	WG1779329
(S) Toluene-d8	115			80.0-120		11/23/2021 18:36	WG1779329
(S) 4-Bromofluorobenzene	108			77.0-126		11/23/2021 18:36	WG1779329
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/23/2021 18:36	WG1779329

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferric Iron	U		15.0	50.0	1	12/10/2021 04:29	WG1785195

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	U		8450	20000	1	11/24/2021 03:11	WG1778864

Sample Narrative:

L1432919-23 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Ferrous Iron	U	T8	15.0	50.0	1	11/21/2021 15:37	WG1776691

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		50.0	100	1	12/15/2021 17:28	WG1788596

Wet Chemistry by Method 4500CO2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Free Carbon Dioxide	ND	T8	20000	1	11/24/2021 03:11	WG1778864

Sample Narrative:

L1432919-23 WG1778864: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Sulfide	U		25.0	50.0	1	11/21/2021 10:31	WG1777937

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	U		379	1000	1	12/11/2021 17:56	WG1787688
Sulfate	U		594	5000	1	12/11/2021 17:56	WG1787688

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	162	B J	102	1000	1	11/22/2021 16:01	WG1778504

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	U		18.0	100	1	12/10/2021 04:29	WG1785195
Manganese	U		0.934	10.0	1	12/10/2021 04:29	WG1785195
Sodium	611	J	504	3000	1	12/10/2021 04:29	WG1785195

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	U		2.91	10.0	1	11/26/2021 12:33	WG1779877
Ethane	U		4.07	13.0	1	11/26/2021 12:33	WG1779877
Ethene	U		4.26	13.0	1	11/26/2021 12:33	WG1779877

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	11.3	50.0	1	11/23/2021 18:56	WG1779329
Benzene	U		0.0941	1.00	1	11/23/2021 18:56	WG1779329
Bromochloromethane	U		0.128	1.00	1	11/23/2021 18:56	WG1779329
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 18:56	WG1779329
Bromoform	U		0.129	1.00	1	11/23/2021 18:56	WG1779329
Bromomethane	U		0.605	5.00	1	11/23/2021 18:56	WG1779329
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 18:56	WG1779329
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 18:56	WG1779329
Chlorobenzene	U		0.116	1.00	1	11/23/2021 18:56	WG1779329
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 18:56	WG1779329
Chloroethane	U		0.192	5.00	1	11/23/2021 18:56	WG1779329
Chloroform	U		0.111	5.00	1	11/23/2021 18:56	WG1779329
Chloromethane	U		0.960	2.50	1	11/23/2021 18:56	WG1779329
Cyclohexane	U		0.188	1.00	1	11/23/2021 18:56	WG1779329
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 18:56	WG1779329
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 18:56	WG1779329
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 18:56	WG1779329
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 18:56	WG1779329
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 18:56	WG1779329
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 18:56	WG1779329
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 18:56	WG1779329
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 18:56	WG1779329
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 18:56	WG1779329
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 18:56	WG1779329
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 18:56	WG1779329
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 18:56	WG1779329
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	11/23/2021 18:56	WG1779329
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 18:56	WG1779329
Ethylbenzene	U		0.137	1.00	1	11/23/2021 18:56	WG1779329
2-Hexanone	U		0.787	10.0	1	11/23/2021 18:56	WG1779329
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 18:56	WG1779329
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 18:56	WG1779329
Methyl Acetate	U		1.29	20.0	1	11/23/2021 18:56	WG1779329
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 18:56	WG1779329
Methylene Chloride	U		0.430	5.00	1	11/23/2021 18:56	WG1779329
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 18:56	WG1779329
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 18:56	WG1779329
Styrene	U		0.118	1.00	1	11/23/2021 18:56	WG1779329
1,1,2,2-Tetrachloroethane	U	C3	0.133	1.00	1	11/23/2021 18:56	WG1779329
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 18:56	WG1779329
Toluene	U		0.278	1.00	1	11/23/2021 18:56	WG1779329
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 18:56	WG1779329
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 18:56	WG1779329
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 18:56	WG1779329
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 18:56	WG1779329
Trichloroethene	U		0.190	1.00	1	11/23/2021 18:56	WG1779329
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 18:56	WG1779329
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 18:56	WG1779329
Vinyl chloride	U		0.234	1.00	1	11/23/2021 18:56	WG1779329



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Xylenes, Total	U		0.174	3.00	1	11/23/2021 18:56	WG1779329
(S) Toluene-d8	114			80.0-120		11/23/2021 18:56	WG1779329
(S) 4-Bromofluorobenzene	103			77.0-126		11/23/2021 18:56	WG1779329
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/23/2021 18:56	WG1779329

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	11/23/2021 18:17	WG1779329
Benzene	U		0.0941	1.00	1	11/23/2021 18:17	WG1779329
Bromochloromethane	U		0.128	1.00	1	11/23/2021 18:17	WG1779329
Bromodichloromethane	U		0.136	1.00	1	11/23/2021 18:17	WG1779329
Bromoform	U		0.129	1.00	1	11/23/2021 18:17	WG1779329
Bromomethane	U		0.605	5.00	1	11/23/2021 18:17	WG1779329
Carbon disulfide	U		0.0962	1.00	1	11/23/2021 18:17	WG1779329
Carbon tetrachloride	U		0.128	1.00	1	11/23/2021 18:17	WG1779329
Chlorobenzene	U		0.116	1.00	1	11/23/2021 18:17	WG1779329
Chlorodibromomethane	U		0.140	1.00	1	11/23/2021 18:17	WG1779329
Chloroethane	U		0.192	5.00	1	11/23/2021 18:17	WG1779329
Chloroform	U		0.111	5.00	1	11/23/2021 18:17	WG1779329
Chloromethane	U		0.960	2.50	1	11/23/2021 18:17	WG1779329
Cyclohexane	U		0.188	1.00	1	11/23/2021 18:17	WG1779329
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/23/2021 18:17	WG1779329
1,2-Dibromoethane	U		0.126	1.00	1	11/23/2021 18:17	WG1779329
1,2-Dichlorobenzene	U		0.107	1.00	1	11/23/2021 18:17	WG1779329
1,3-Dichlorobenzene	U		0.110	1.00	1	11/23/2021 18:17	WG1779329
1,4-Dichlorobenzene	U		0.120	1.00	1	11/23/2021 18:17	WG1779329
Dichlorodifluoromethane	U		0.374	5.00	1	11/23/2021 18:17	WG1779329
1,1-Dichloroethane	U		0.100	1.00	1	11/23/2021 18:17	WG1779329
1,2-Dichloroethane	U		0.0819	1.00	1	11/23/2021 18:17	WG1779329
1,1-Dichloroethene	U		0.188	1.00	1	11/23/2021 18:17	WG1779329
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/23/2021 18:17	WG1779329
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/23/2021 18:17	WG1779329
1,2-Dichloropropane	U		0.149	1.00	1	11/23/2021 18:17	WG1779329
cis-1,3-Dichloropropene	U	J4	0.111	1.00	1	11/23/2021 18:17	WG1779329
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/23/2021 18:17	WG1779329
Ethylbenzene	U		0.137	1.00	1	11/23/2021 18:17	WG1779329
2-Hexanone	U		0.787	10.0	1	11/23/2021 18:17	WG1779329
Isopropylbenzene	U		0.105	1.00	1	11/23/2021 18:17	WG1779329
2-Butanone (MEK)	U		1.19	10.0	1	11/23/2021 18:17	WG1779329
Methyl Acetate	U		1.29	20.0	1	11/23/2021 18:17	WG1779329
Methyl Cyclohexane	U		0.660	1.00	1	11/23/2021 18:17	WG1779329
Methylene Chloride	U		0.430	5.00	1	11/23/2021 18:17	WG1779329
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/23/2021 18:17	WG1779329
Methyl tert-butyl ether	U		0.101	1.00	1	11/23/2021 18:17	WG1779329
Styrene	U		0.118	1.00	1	11/23/2021 18:17	WG1779329
1,1,2,2-Tetrachloroethane	U	C3	0.133	1.00	1	11/23/2021 18:17	WG1779329
Tetrachloroethene	U		0.300	1.00	1	11/23/2021 18:17	WG1779329
Toluene	U		0.278	1.00	1	11/23/2021 18:17	WG1779329
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/23/2021 18:17	WG1779329
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/23/2021 18:17	WG1779329
1,1,1-Trichloroethane	U		0.149	1.00	1	11/23/2021 18:17	WG1779329
1,1,2-Trichloroethane	U		0.158	1.00	1	11/23/2021 18:17	WG1779329
Trichloroethene	U		0.190	1.00	1	11/23/2021 18:17	WG1779329
Trichlorofluoromethane	U		0.160	5.00	1	11/23/2021 18:17	WG1779329
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/23/2021 18:17	WG1779329
Vinyl chloride	U		0.234	1.00	1	11/23/2021 18:17	WG1779329
Xylenes, Total	U		0.174	3.00	1	11/23/2021 18:17	WG1779329
(S) Toluene-d8	118			80.0-120		11/23/2021 18:17	WG1779329
(S) 4-Bromofluorobenzene	106			77.0-126		11/23/2021 18:17	WG1779329
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/23/2021 18:17	WG1779329

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3733285-2 11/24/21 01:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1432912-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1432912-01 11/24/21 01:37 • (DUP) R3733285-4 11/24/21 01:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	20200	21200	1	4.81		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1432919-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-02 11/24/21 02:21 • (DUP) R3733285-6 11/24/21 02:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	341000	344000	1	0.751		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3733285-1 11/24/21 01:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	95500	95.5	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R3733292-2 11/24/21 02:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1432919-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-14 11/24/21 02:13 • (DUP) R3733292-4 11/24/21 02:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	275000	272000	1	1.03		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1433215-107 Original Sample (OS) • Duplicate (DUP)

(OS) L1433215-107 11/24/21 03:54 • (DUP) R3733292-6 11/24/21 03:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Alkalinity	12000	12100	1	0.218	⌵	20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3733292-1 11/24/21 01:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Alkalinity	100000	96100	96.1	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R3732103-1 11/21/21 15:29

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ferrous Iron	U		15.0	50.0

L1432578-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1432578-02 11/21/21 15:32 • (DUP) R3732103-3 11/21/21 15:33

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	438	453	1	3.37		20

L1433314-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1433314-03 11/21/21 15:49 • (DUP) R3732103-4 11/21/21 15:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3732103-2 11/21/21 15:29

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	990	99.0	85.0-115	

L1433482-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433482-01 11/21/21 15:53 • (MS) R3732103-5 11/21/21 15:53 • (MSD) R3732103-6 11/21/21 15:53

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ferrous Iron	1000	U	892	866	89.2	86.6	1	80.0-120			2.96	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3731637-1 11/19/21 11:24

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Ferrous Iron	U		15.0	50.0

L1432919-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-03 11/19/21 11:28 • (DUP) R3731637-3 11/19/21 11:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	892	900	1	0.893		20

L1432919-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-17 11/19/21 11:47 • (DUP) R3731637-6 11/19/21 11:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Ferrous Iron	152	143	1	6.10		20

Laboratory Control Sample (LCS)

(LCS) R3731637-2 11/19/21 11:24

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Ferrous Iron	1000	979	97.9	85.0-115	

L1432919-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432919-09 11/19/21 11:36 • (MS) R3731637-4 11/19/21 11:37 • (MSD) R3731637-5 11/19/21 11:38

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ferrous Iron	1000	619	1580	1590	96.4	96.8	1	80.0-120			0.252	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3740502-1 12/14/21 13:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1432912-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1432912-04 12/14/21 13:48 • (DUP) R3740502-3 12/14/21 13:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	U	U	1	0.000		20

L1432919-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-06 12/14/21 14:05 • (DUP) R3740502-6 12/14/21 14:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3740502-2 12/14/21 13:44

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2440	97.6	90.0-110	

L1432912-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432912-07 12/14/21 13:53 • (MS) R3740502-4 12/14/21 13:58 • (MSD) R3740502-5 12/14/21 13:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2610	2610	104	104	1	90.0-110			0.000	20

L1434944-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1434944-02 12/14/21 14:22 • (MS) R3740502-7 12/14/21 14:23

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	213	2620	96.3	1	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3740637-1 12/14/21 16:38

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1433741-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1433741-03 12/14/21 17:01 • (DUP) R3740637-3 12/14/21 17:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	574	575	1	0.174		20

L1433741-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1433741-10 12/14/21 17:13 • (DUP) R3740637-6 12/14/21 17:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	217	211	1	2.80		20

Laboratory Control Sample (LCS)

(LCS) R3740637-2 12/14/21 16:39

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2490	99.6	90.0-110	

L1433741-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433741-09 12/14/21 17:05 • (MS) R3740637-4 12/14/21 17:10 • (MSD) R3740637-5 12/14/21 17:11

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2340	2040	93.6	81.6	1	90.0-110		J6	13.7	20

L1435386-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1435386-01 12/14/21 17:18 • (MS) R3740637-7 12/14/21 17:19

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	4260	6470	88.4	1	90.0-110	E J6

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3741157-1 12/15/21 16:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		50.0	100

L1432544-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1432544-01 12/15/21 17:00 • (DUP) R3741157-4 12/15/21 17:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	185	187	1	1.08		20

L1432919-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-23 12/15/21 17:28 • (DUP) R3741157-5 12/15/21 17:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3741157-2 12/15/21 16:52

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2710	108	90.0-110	

L1432475-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1432475-02 12/15/21 16:57 • (MS) R3741157-3 12/15/21 16:58

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Nitrate-Nitrite	2500	1530	3950	96.8	1	90.0-110	

L1432794-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432794-01 12/15/21 17:30 • (MS) R3741157-6 12/15/21 17:32 • (MSD) R3741157-7 12/15/21 17:33

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	29100	29300	29200	8.00	4.00	10	90.0-110	⬇	⬇	0.342	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3733285-3 11/24/21 01:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Free Carbon Dioxide	U		6670	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1432912-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1432912-01 11/24/21 01:37 • (DUP) R3733285-5 11/24/21 01:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	90700	93300	1	2.86		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1432919-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-02 11/24/21 02:21 • (DUP) R3733285-7 11/24/21 02:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Free Carbon Dioxide	136000	134000	1	1.30		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3733292-3 11/24/21 02:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Free Carbon Dioxide	21300		6670	20000

Sample Narrative:
BLANK: Endpoint pH 4.5

L1433215-107 Original Sample (OS) • Duplicate (DUP)

(OS) L1433215-107 11/24/21 03:54 • (DUP) R3733292-7 11/24/21 03:56

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Free Carbon Dioxide	95900	91100	1	5.15		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1432919-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-14 11/24/21 02:13 • (DUP) R3733292-5 11/24/21 02:17

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Free Carbon Dioxide	39100	37700	1	3.79		20

Sample Narrative:
OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3731873-1 11/20/21 00:04

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.0	50.0

L1432912-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1432912-01 11/20/21 00:11 • (DUP) R3731873-5 11/20/21 00:12

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

L1432919-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-05 11/20/21 00:15 • (DUP) R3731873-6 11/20/21 00:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3731873-2 11/20/21 00:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	510	102	85.0-115	

L1432578-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432578-04 11/20/21 00:08 • (MS) R3731873-3 11/20/21 00:09 • (MSD) R3731873-4 11/20/21 00:09

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	403	402	80.6	80.4	1	80.0-120			0.248	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3732055-1 11/21/21 10:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.0	50.0

L1432919-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-01 11/21/21 10:17 • (DUP) R3732055-3 11/21/21 10:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

L1432919-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-14 11/21/21 10:23 • (DUP) R3732055-6 11/21/21 10:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3732055-2 11/21/21 10:16

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	488	97.6	85.0-115	

L1432919-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432919-10 11/21/21 10:22 • (MS) R3732055-4 11/21/21 10:22 • (MSD) R3732055-5 11/21/21 10:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	435	394	87.0	78.8	1	80.0-120		J6	9.89	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3739358-1 12/08/21 22:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Sulfate	U		594	5000

L1432919-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-06 12/09/21 02:15 • (DUP) R3739358-5 12/09/21 02:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	77000	76800	5	0.216		15
Sulfate	59900	59800	5	0.148		15

L1432919-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-09 12/09/21 03:37 • (DUP) R3739358-6 12/09/21 04:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	202000	201000	5	0.654		15
Sulfate	230000	228000	5	0.806		15

Laboratory Control Sample (LCS)

(LCS) R3739358-2 12/08/21 22:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39500	98.6	80.0-120	
Sulfate	40000	39200	98.0	80.0-120	

L1432919-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432919-04 12/09/21 00:20 • (MS) R3739358-3 12/09/21 00:37 • (MSD) R3739358-4 12/09/21 00:53

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chloride	50000	172000	213000	212000	80.9	79.3	1	80.0-120	E	E J6	0.368	15
Sulfate	50000	17900	64700	64500	93.5	93.2	1	80.0-120			0.246	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1432919-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1432919-13 12/09/21 06:34 • (MS) R3739358-7 12/09/21 06:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	612000	628000	31.4	1	80.0-120	<u>E V</u>
Sulfate	50000	78100	120000	83.8	1	80.0-120	<u>E</u>

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3738957-1 12/08/21 23:18

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Sulfate	U		594	5000

L1432919-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-22 12/09/21 00:21 • (DUP) R3738957-3 12/09/21 00:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1437768-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1437768-01 12/09/21 11:22 • (DUP) R3738957-8 12/09/21 12:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	9460	9440	1	0.147		15
Sulfate	3900	3910	1	0.105	U	15

Laboratory Control Sample (LCS)

(LCS) R3738957-2 12/08/21 23:33

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39100	97.7	80.0-120	
Sulfate	40000	39600	99.0	80.0-120	

L1433072-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433072-04 12/09/21 05:00 • (MS) R3738957-4 12/09/21 05:48 • (MSD) R3738957-5 12/09/21 06:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chloride	50000	16300	64700	64500	96.8	96.5	1	80.0-120			0.248	15
Sulfate	50000	2010000	1980000	2000000	0.000	0.000	1	80.0-120	EV	EV	0.892	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1433073-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433073-01 12/09/21 07:39 • (MS) R3738957-6 12/09/21 07:55 • (MSD) R3738957-7 12/09/21 08:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	86300	130000	131000	88.1	90.1	1	80.0-120	E	E	0.779	15
Sulfate	50000	1680000	1680000	1680000	3.59	0.000	1	80.0-120	EV	EV	0.166	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3740460-1 12/11/21 09:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Sulfate	U		594	5000

L1433083-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1433083-04 12/11/21 15:59 • (DUP) R3740460-3 12/11/21 16:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	1720	1560	1	9.75		15
Sulfate	31000	30900	1	0.500		15

L1432919-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-23 12/11/21 17:56 • (DUP) R3740460-6 12/11/21 18:08

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3740460-2 12/11/21 09:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39500	98.7	80.0-120	
Sulfate	40000	39400	98.5	80.0-120	

L1433083-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433083-04 12/11/21 15:59 • (MS) R3740460-4 12/11/21 16:23 • (MSD) R3740460-5 12/11/21 16:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chloride	50000	1720	52700	52700	102	102	1	80.0-120			0.0449	15
Sulfate	50000	31000	78400	78500	94.7	94.9	1	80.0-120			0.102	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1432919-23 Original Sample (OS) • Matrix Spike (MS)

(OS) L1432919-23 12/11/21 17:56 • (MS) R3740460-7 12/11/21 18:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	U	50500	101	1	80.0-120	
Sulfate	50000	U	49900	99.8	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3732775-2 11/23/21 00:48

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	514	⬇	102	1000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1432912-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1432912-07 11/23/21 02:15 • (DUP) R3732775-5 11/23/21 02:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	543	465	1	15.4	⬇	20

L1432919-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-12 11/23/21 08:01 • (DUP) R3732775-8 11/23/21 08:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	7440	7220	1	2.97		20

Laboratory Control Sample (LCS)

(LCS) R3732775-1 11/23/21 00:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	76400	102	85.0-115	

L1432912-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432912-05 11/23/21 01:04 • (MS) R3732775-3 11/23/21 01:26 • (MSD) R3732775-4 11/23/21 01:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	1260	50500	50600	98.4	98.7	1	80.0-120			0.257	20

L1432919-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432919-10 11/23/21 06:04 • (MS) R3732775-6 11/23/21 06:26 • (MSD) R3732775-7 11/23/21 06:49

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	6470	61200	60500	110	108	1	80.0-120			1.15	20

Method Blank (MB)

(MB) R3732774-2 11/22/21 12:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	572	⬇	102	1000

L1433065-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1433065-01 11/22/21 16:30 • (DUP) R3732774-3 11/22/21 16:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1760	1830	1	3.62		20

L1433065-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1433065-03 11/22/21 17:52 • (DUP) R3732774-4 11/22/21 18:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3600	3810	1	5.61		20

Laboratory Control Sample (LCS)

(LCS) R3732774-1 11/22/21 12:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	79300	106	85.0-115	

L1433065-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433065-07 11/22/21 19:03 • (MS) R3732774-5 11/22/21 19:25 • (MSD) R3732774-6 11/22/21 19:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	1920	56100	55000	108	106	1	80.0-120			2.05	20

L1433065-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433065-09 11/22/21 20:53 • (MS) R3732774-7 11/22/21 21:14 • (MSD) R3732774-8 11/22/21 21:36

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	1980	54000	52800	104	102	1	80.0-120			2.23	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3733411-2 11/23/21 12:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	490	⬇	102	1000

L1433076-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1433076-10 11/23/21 16:02 • (DUP) R3733411-5 11/23/21 16:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1200	1210	1	1.50		20

Laboratory Control Sample (LCS)

(LCS) R3733411-1 11/23/21 12:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	75000	74900	99.9	85.0-115	

L1433076-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433076-09 11/23/21 14:43 • (MS) R3733411-3 11/23/21 15:01 • (MSD) R3733411-4 11/23/21 15:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	50000	1470	48600	50100	94.2	97.3	1	80.0-120			3.14	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3739196-1 12/10/21 04:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		18.0	100
Manganese	U		0.934	10.0
Sodium	U		504	3000

Laboratory Control Sample (LCS)

(LCS) R3739196-2 12/10/21 04:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9680	96.8	80.0-120	
Manganese	1000	961	96.1	80.0-120	
Sodium	10000	10000	100	80.0-120	

L1432906-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432906-02 12/10/21 04:54 • (MS) R3739196-4 12/10/21 05:00 • (MSD) R3739196-5 12/10/21 05:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sodium	10000	9580	19100	19000	95.4	94.1	1	75.0-125			0.693	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3739194-1 12/10/21 01:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	21.1		18.0	100
Manganese	U		0.934	10.0
Sodium	U		504	3000

Laboratory Control Sample (LCS)

(LCS) R3739194-2 12/10/21 01:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9920	99.2	80.0-120	
Manganese	1000	978	97.8	80.0-120	
Sodium	10000	10300	103	80.0-120	

L1432919-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1432919-10 12/10/21 01:54 • (MS) R3739194-4 12/10/21 02:00 • (MSD) R3739194-5 12/10/21 02:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	10000	1310	10900	10900	96.1	95.9	1	75.0-125			0.225	20
Manganese	1000	1300	2200	2210	90.1	90.9	1	75.0-125			0.339	20
Sodium	10000	2400000	2370000	2360000	0.000	0.000	1	75.0-125			0.428	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3733872-2 11/25/21 12:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1432826-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1432826-03 11/25/21 14:03 • (DUP) R3733872-3 11/25/21 14:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	U	U	1	0.000		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

L1432919-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-07 11/25/21 14:58 • (DUP) R3733872-4 11/25/21 15:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Methane	18.4	18.3	1	0.545		20
Ethane	U	U	1	0.000		20
Ethene	U	U	1	0.000		20

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

(LCS) R3733872-1 11/25/21 12:44 • (LCSD) R3733872-5 11/25/21 15:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methane	67.8	67.3	64.9	99.3	95.7	85.0-115			3.63	20
Ethane	129	119	117	92.2	90.7	85.0-115			1.69	20
Ethene	127	119	117	93.7	92.1	85.0-115			1.69	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3734118-2 11/26/21 10:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Methane	U		2.91	10.0
Ethane	U		4.07	13.0
Ethene	U		4.26	13.0

L1432919-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-17 11/26/21 11:52 • (DUP) R3734118-3 11/26/21 12:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Methane	872	918	1	5.14		20
Ethane	7.03	6.62	1	6.01	U	20
Ethene	8.37	8.61	1	2.83	U	20

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3734118-4 11/26/21 13:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l			%		%
Methane		2820	1	14.4		20
Ethane		U	1	0.000		20
Ethene		U	1	0.000		20

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

(LCS) R3734118-1 11/26/21 10:52 • (LCSD) R3734118-5 11/26/21 13:06

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	66.1	71.6	97.5	106	85.0-115			7.99	20
Ethane	129	119	117	92.2	90.7	85.0-115			1.69	20
Ethene	127	119	116	93.7	91.3	85.0-115			2.55	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3733758-2 11/22/21 23:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	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
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichlorobenzene	0.170	IL	0.107	1.00
1,3-Dichlorobenzene	0.175	IL	0.110	1.00
1,4-Dichlorobenzene	0.190	IL	0.120	1.00
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
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3733758-2 11/22/21 23:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	0.576	U	0.230	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
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	112			80.0-120
(S) 4-Bromofluorobenzene	111			77.0-126
(S) 1,2-Dichloroethane-d4	99.2			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3733758-1 11/22/21 21:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	20.6	82.4	19.0-160	
Benzene	5.00	5.06	101	70.0-123	
Bromodichloromethane	5.00	4.91	98.2	75.0-120	
Bromochloromethane	5.00	5.16	103	76.0-122	
Bromoform	5.00	4.66	93.2	68.0-132	
Bromomethane	5.00	5.49	110	10.0-160	
Carbon disulfide	5.00	5.63	113	61.0-128	
Carbon tetrachloride	5.00	4.78	95.6	68.0-126	
Chlorobenzene	5.00	5.46	109	80.0-121	
Chlorodibromomethane	5.00	5.03	101	77.0-125	
Chloroethane	5.00	5.12	102	47.0-150	
Chloroform	5.00	4.85	97.0	73.0-120	
Chloromethane	5.00	5.94	119	41.0-142	
Cyclohexane	5.00	5.00	100	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	4.82	96.4	58.0-134	
1,2-Dibromoethane	5.00	5.13	103	80.0-122	
1,2-Dichlorobenzene	5.00	5.15	103	79.0-121	
1,3-Dichlorobenzene	5.00	5.16	103	79.0-120	
1,4-Dichlorobenzene	5.00	5.06	101	79.0-120	
Dichlorodifluoromethane	5.00	5.06	101	51.0-149	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3733758-1 11/22/21 21:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
1,1-Dichloroethane	5.00	5.15	103	70.0-126	
1,2-Dichloroethane	5.00	4.47	89.4	70.0-128	
1,1-Dichloroethene	5.00	5.55	111	71.0-124	
cis-1,2-Dichloroethene	5.00	5.51	110	73.0-120	
trans-1,2-Dichloroethene	5.00	5.64	113	73.0-120	
1,2-Dichloropropane	5.00	4.70	94.0	77.0-125	
cis-1,3-Dichloropropene	5.00	5.25	105	80.0-123	
trans-1,3-Dichloropropene	5.00	5.35	107	78.0-124	
Ethylbenzene	5.00	5.39	108	79.0-123	
2-Hexanone	25.0	25.0	100	67.0-149	
Isopropylbenzene	5.00	5.64	113	76.0-127	
2-Butanone (MEK)	25.0	23.6	94.4	44.0-160	
Methyl Acetate	25.0	25.5	102	57.0-148	
Methyl Cyclohexane	5.00	5.22	104	68.0-126	
Methylene Chloride	5.00	5.77	115	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	26.0	104	68.0-142	
Methyl tert-butyl ether	5.00	5.46	109	68.0-125	
Styrene	5.00	5.40	108	73.0-130	
1,1,2,2-Tetrachloroethane	5.00	5.12	102	65.0-130	
Tetrachloroethene	5.00	5.86	117	72.0-132	
Toluene	5.00	5.29	106	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.90	98.0	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.60	112	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.37	107	57.0-137	
1,1,1-Trichloroethane	5.00	5.00	100	73.0-124	
1,1,2-Trichloroethane	5.00	5.13	103	80.0-120	
Trichloroethene	5.00	5.29	106	78.0-124	
Trichlorofluoromethane	5.00	3.80	76.0	59.0-147	
Vinyl chloride	5.00	5.53	111	67.0-131	
Xylenes, Total	15.0	16.6	111	79.0-123	
(S) Toluene-d8			111	80.0-120	
(S) 4-Bromofluorobenzene			109	77.0-126	
(S) 1,2-Dichloroethane-d4			98.6	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3733937-2 11/23/21 17:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromodichloromethane	U		0.136	1.00
Bromochloromethane	U		0.128	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	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
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	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
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
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3733937-2 11/23/21 17:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	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
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	108			77.0-126
(S) 1,2-Dichloroethane-d4	113			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3733937-1 11/23/21 16:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	49.8	199	19.0-160	J4
Benzene	5.00	4.56	91.2	70.0-123	
Bromodichloromethane	5.00	4.60	92.0	75.0-120	
Bromochloromethane	5.00	4.96	99.2	76.0-122	
Bromoform	5.00	4.53	90.6	68.0-132	
Bromomethane	5.00	5.32	106	10.0-160	
Carbon disulfide	5.00	4.27	85.4	61.0-128	
Carbon tetrachloride	5.00	4.20	84.0	68.0-126	
Chlorobenzene	5.00	4.67	93.4	80.0-121	
Chlorodibromomethane	5.00	4.92	98.4	77.0-125	
Chloroethane	5.00	4.69	93.8	47.0-150	
Chloroform	5.00	4.35	87.0	73.0-120	
Chloromethane	5.00	5.16	103	41.0-142	
Cyclohexane	5.00	4.04	80.8	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.03	101	58.0-134	
1,2-Dibromoethane	5.00	4.65	93.0	80.0-122	
1,2-Dichlorobenzene	5.00	4.99	99.8	79.0-121	
1,3-Dichlorobenzene	5.00	5.02	100	79.0-120	
1,4-Dichlorobenzene	5.00	4.75	95.0	79.0-120	
Dichlorodifluoromethane	5.00	4.24	84.8	51.0-149	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3733937-1 11/23/21 16:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1-Dichloroethane	5.00	4.44	88.8	70.0-126	
1,2-Dichloroethane	5.00	4.28	85.6	70.0-128	
1,1-Dichloroethene	5.00	4.24	84.8	71.0-124	
cis-1,2-Dichloroethene	5.00	4.72	94.4	73.0-120	
trans-1,2-Dichloroethene	5.00	4.28	85.6	73.0-120	
1,2-Dichloropropane	5.00	4.32	86.4	77.0-125	
cis-1,3-Dichloropropene	5.00	3.84	76.8	80.0-123	J4
trans-1,3-Dichloropropene	5.00	4.31	86.2	78.0-124	
Ethylbenzene	5.00	4.91	98.2	79.0-123	
2-Hexanone	25.0	23.1	92.4	67.0-149	
Isopropylbenzene	5.00	4.68	93.6	76.0-127	
2-Butanone (MEK)	25.0	29.2	117	44.0-160	
Methyl Acetate	25.0	29.3	117	57.0-148	
Methyl Cyclohexane	5.00	4.09	81.8	68.0-126	
Methylene Chloride	5.00	5.06	101	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	27.1	108	68.0-142	
Methyl tert-butyl ether	5.00	4.66	93.2	68.0-125	
Styrene	5.00	4.54	90.8	73.0-130	
1,1,2,2-Tetrachloroethane	5.00	3.68	73.6	65.0-130	
Tetrachloroethene	5.00	4.57	91.4	72.0-132	
Toluene	5.00	4.56	91.2	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.38	87.6	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.47	109	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.48	110	57.0-137	
1,1,1-Trichloroethane	5.00	4.33	86.6	73.0-124	
1,1,2-Trichloroethane	5.00	4.61	92.2	80.0-120	
Trichloroethene	5.00	4.47	89.4	78.0-124	
Trichlorofluoromethane	5.00	4.71	94.2	59.0-147	
Vinyl chloride	5.00	4.52	90.4	67.0-131	
Xylenes, Total	15.0	14.3	95.3	79.0-123	
(S) Toluene-d8			113	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			112	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3733928-3 11/24/21 21:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Methyl tert-butyl ether	U		0.101	1.00
(S) Toluene-d8	110			80.0-120
(S) 4-Bromofluorobenzene	98.8			77.0-126
(S) 1,2-Dichloroethane-d4	111			70.0-130

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

(LCS) R3733928-1 11/24/21 20:12 • (LCSD) R3733928-2 11/24/21 20:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methyl tert-butyl ether	5.00	4.98	5.05	99.6	101	68.0-125			1.40	20
(S) Toluene-d8				108	109	80.0-120				
(S) 4-Bromofluorobenzene				104	99.6	77.0-126				
(S) 1,2-Dichloroethane-d4				108	106	70.0-130				

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

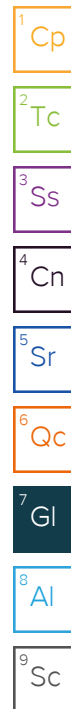
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

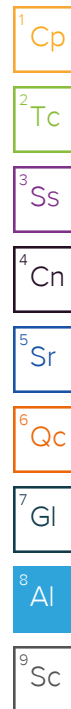
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

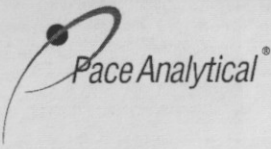
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

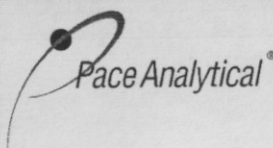
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

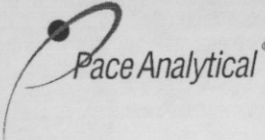


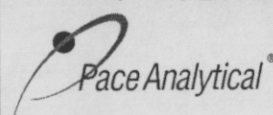
Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page 1 of 6			
				Report to: Ryan Merrell				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.com													
Project Description: POD 4 - Oceanside 6518040				City/State Collected:				Please Circle: PT MT CT ET													
Phone: 718-446-0116				Client Project # 30062947.19.21				Lab Project # CHEVARCNY-6518040												SDG #	
Collected by (print): <i>Kirk Vayns</i> <i>Avi Bell</i>				Site/Facility ID # 6518040				P.O. #												Table	
Collected by (signature): <i>[Signature]</i>				Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day				Quote #												Acctnum: CHEVARCNY	
Immediately Packed on Ice N ___ Y ☒								Date Results Needed												Template: T182105	
								No. of Cntrs												Pregoin: P886913	
																				PM: 526 - Chris McCord	
																				PB: <i>11/10/21</i>	
																				Shipped Via: FedEX Priority	
Sample ID				Comp/Grab	Matrix *	Depth	Date	Time										Remarks		Sample # (lab only)	
MW-27-D2-W-2111 <i>17</i>				Grab	GW		11/17/21	0030	11	X	X	X	X	X	X	X	X			01	
MW-28-D2R-W-2111					GW				11	X	X	X	X	X	X	X	X				
MW-24-D2-W-2111					GW				11	X	X	X	X	X	X	X	X				
MW-24-VDR-W-2111 <i>16</i>				Grab	GW		11/16/21	2300	11	X	X	X	X	X	X	X	X			0402	
AMW-15-VD-W-2111 <i>16</i>				Grab	GW		11/16/21	0250	11	X	X	X	X	X	X	X	X			0503	
AMW-7R-W-2111					GW				11	X	X	X	X	X	X	X	X				
AMW-14-VD-W-2111 <i>16</i>				Grab	GW		11/16/21	0030	11	X	X	X	X	X	X	X	X			07 04	
AMW-14-D2-W-2111 <i>16</i>				Grab	GW		11/16/21	0055	11	X	X	X	X	X	X	X	X			02 05	
MW-28-D1-W-2111					GW				11	X	X	X	X	X	X	X	X				
MW-26-D2-W-2111					GW				11	X	X	X	X	X	X	X	X				
* 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 #																	
Relinquished by: (Signature) <i>[Signature]</i>				Date: 11/17/21	Time: 1550	Received by: (Signature) <i>[Signature]</i>				Trip Blank Received: Yes/No 6 HC / MeOH TBR											
Relinquished by: (Signature)				Date:	Time:	Received by: (Signature)				Temp: <i>1.1 ± 0.1</i>				Bottles Received: 253				If preservation required by Login: Date/Time			
Relinquished by: (Signature)				Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>				Date: 11/18/21				Time: 0930				Hold: Condition: NCF / OK			

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

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101 Report to: Ryan Merrell						Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129 Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.						Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>4</u> of <u>6</u>  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/hubfs/pas-standard-terms.pdf																																
Project Description: POD 4 - Oceanside 6518040						City/State Collected:						Please Circle: PT MT CT ET						SDG # <u>L1432919</u> Table # Acctnum: CHEVARCNY Template: T182105 Prelogin: P886913 PM: 526 - Chris McCord PB: <u>11/10/21 ted</u> Shipped Via: FedEX Priority Remarks Sample # (lab only)																																						
Phone: 718-446-0116			Client Project # 30062947.19.21			Lab Project # CHEVARCNY-6518040			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres</td> <td>FE/CP,MNICP,NAICP 250mlHDPE-HNO3</td> <td>FERUSFE,FERICFE 250mlAmb-HCI</td> <td>NO2NO3 250mlHDPE-H2SO4</td> <td>RSK175 40mlAmb HCI</td> <td>SULFIDE 250mlAmb-S-NaOH+ZnAc</td> <td>TOC 250mlHDPE-HCI</td> <td>V8260TCLC 40mlAmb-HCI</td> <td>V8260TCLC-TripBlank 40mlAmb-HCI-Bik</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>											ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres	FE/CP,MNICP,NAICP 250mlHDPE-HNO3	FERUSFE,FERICFE 250mlAmb-HCI	NO2NO3 250mlHDPE-H2SO4	RSK175 40mlAmb HCI	SULFIDE 250mlAmb-S-NaOH+ZnAc	TOC 250mlHDPE-HCI	V8260TCLC 40mlAmb-HCI	V8260TCLC-TripBlank 40mlAmb-HCI-Bik																												
ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres	FE/CP,MNICP,NAICP 250mlHDPE-HNO3	FERUSFE,FERICFE 250mlAmb-HCI	NO2NO3 250mlHDPE-H2SO4	RSK175 40mlAmb HCI	SULFIDE 250mlAmb-S-NaOH+ZnAc	TOC 250mlHDPE-HCI	V8260TCLC 40mlAmb-HCI	V8260TCLC-TripBlank 40mlAmb-HCI-Bik																																																
Collected by (print): <u>Avi Bell</u> <u>Kirk Vigneri</u>			Site/Facility ID # 6518040			P.O. #																																																		
Collected by (signature): <u>[Signature]</u>			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			No. of Cntrs																																															
Immediately Packed on Ice N ☐ Y ☒																																																								
Sample ID						Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs																																													
MW-27-D2-W-2111							GW				11	X	X	X	X	X	X	X	X	X	X																																			
MW-28-D2R-W-2111 <u>16</u>						Grab	GW		11/16/21	1940	11	X	X	X	X	X	X	X	X	X	X		02 06 15																																	
MW-24-D2-W-2111 <u>16</u>						Grab	GW		11/16/21	2305	11	X	X	X	X	X	X	X	X	X	X		03 09 16																																	
MW-24-VDR-W-2111							GW				11	X	X	X	X	X	X	X	X	X	X																																			
AMW-15-VD-W-2111							GW				11	X	X	X	X	X	X	X	X	X	X																																			
AMW-7R-W-2111 <u>16</u>						Grab	GW		11/16/21	2030	11	X	X	X	X	X	X	X	X	X	X		06 08 17																																	
AMW-14-VD-W-2111							GW				11	X	X	X	X	X	X	X	X	X	X																																			
AMW-14-D2-W-2111							GW				11	X	X	X	X	X	X	X	X	X	X																																			
MW-28-D1-W-2111 <u>16</u>						Grab	GW		11/16/21	2000	11	X	X	X	X	X	X	X	X	X	X		09 09 19																																	
MW-26-D2-W-2111 <u>16</u>						Grab	GW		11/16/21	2150	11	X	X	X	X	X	X	X	X	X	X		10 10 19																																	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other						Remarks: Samples returned via: ☐ UPS ☐ FedEx ☐ Courier										Tracking #																																								
Relinquished by: (Signature) <u>[Signature]</u>						Date: 11/17/21		Time: 1550		Received by: (Signature) <u>[Signature]</u>						Trip Blank Received: Yes/No ☒ Yes / ☐ No MeOH TBR																																								
Relinquished by: (Signature)						Date:		Time:		Received by: (Signature)						Temp: <u>1.1 ± 0 = 1.1</u> 253 Bottles Received:						If preservation required by Login: Date/Time																																		
Relinquished by: (Signature)						Date:		Time:		Received for Lab by: (Signature) <u>[Signature]</u>						Date: 11/18/21 Time: 1931						Hold:		Condition: NCF / <u>OK</u>																																

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>2</u> of <u>6</u>					
				Report to: Ryan Merrell				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.																	
Project Description: POD 4 - Oceanside 6518040				City/State Collected:				Please Circle: PT MT CT ET				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													
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040																					
Collected by (print): <i>K. Ben</i> <i>Avi Ben</i>		Site/Facility ID # 6518040		P.O. #																					
Collected by (signature): <i>[Signature]</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																					
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed		No. of Cntrs																			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres	FEICP,MNCP,NAICP 250mlHDPE-HNO3	FERUSFE,FERICFE 250mlAmb-HCl	NO2NO3 250mlHDPE-H2SO4	RSK175 40mlAmb HCl	SULFIDE 250mlAmb-S-NaOH+ZnAc	TOC 250mlHDPE-HCl	V8260TCLC 40mlAmb-HCl	V8260TCLC-TripBlank 40mlAmb-HCl-Bik	Remarks	Sample # (lab only)							
MW-23-D2R-W-2111 <u>16</u>		Grab	GW		11/16/21	2215	11	X	X	X	X	X	X	X	X			11 <i>pb</i>							
AMW-15-D2-W-2111 <u>16</u>		Grab	GW		11/16/21	0210	11	X	X	X	X	X	X	X	X			12 <i>pb</i>							
AMW-15-D3-W-2111 <u>16</u>		Grab	GW		11/16/21	0230	11	X	X	X	X	X	X	X	X			13 <i>pb</i>							
MW-23-D1R-W-2111 <u>16</u>		Grab	GW		11/16/21	2230	11	X	X	X	X	X	X	X	X			14 <i>pb</i>							
AMW-15-D1-W-2111 <u>16</u>		Grab	GW		11/16/21	0150	11	X	X	X	X	X	X	X	X			15 <i>pb</i>							
MW-27-D1R-W-2111 <u>17</u>		Grab	GW		11/17/21	0130	11	X	X	X	X	X	X	X	X			16 <i>pb</i>							
MW-26-D1-W-2111 <u>16</u>		Grab	GW		11/16/21	2130	11	X	X	X	X	X	X	X	X			17 <i>pb</i>							
MW-29-D1-W-2111			GW				11	X	X	X	X	X	X	X	X										
AMW-14-D1-W-2111			GW				11	X	X	X	X	X	X	X	X										
MW-24-D1R-W-2111			GW				11	X	X	X	X	X	X	X	X										
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: pH _____ Temp _____ Flow _____ Other _____										Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☐ Y ☐ N Bottles arrive intact: ☐ Y ☐ N Correct bottles used: ☐ Y ☐ N Sufficient volume sent: ☐ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N													
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																							
Relinquished by: (Signature) <i>[Signature]</i>		Date: 11/17/21	Time: 1550	Received by: (Signature) <i>[Signature]</i>				Trip Blank Received: Yes/No No / MeOH TBR																	
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received by: (Signature) <i>[Signature]</i>				Temp: 12.6 1.1 ± 0.1				Bottles Received: 253				If preservation required by Login: Date/Time									
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>				Date: 11/18/21 Time: 0930				Hold:				Condition: NCF / OK									

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative												Chain of Custody Page 5 of 6	
Report to: Ryan Merrell				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.																			
Project Description: POD 4 - Oceanside 6518040				City/State Collected:				Please Circle: PT MT CT ET														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	
Phone: 718-446-0116				Client Project # 30062947.19.21				Lab Project # CHEVARCNY-6518040														SDG # 11432919	
Collected by (print): Kirk Vargas				Site/Facility ID # 6518040				P.O. #														Table #	
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 #														Acctnum: CHEVARCNY Template: T182105 Prelogin: P886913 PM: 526 - Chris McCord PB: 11/10/21	
Immediately Packed on Ice N Y				Date Results Needed				No. of Cntrs														Shipped Via: FedEx Priority	
Sample ID				Comp/Grab	Matrix *	Depth	Date	Time		ALK,Cl,CO2,SULFATE 250mlHDPE-NoPres	FEICP,MNICP,NAICP 250mlHDPE-HNO3	FERUSFE,FERICFE 250mlAmb-HCl	NO2NO3 250mlHDPE-H2SO4	RSK175 40mlAmb HCl	SULFIDE 250mlAmb-S-NaOH+ZnAc	TOC 250mlHDPE-HCl	V8260TCLC 40mlAmb-HCl	V8260TCLC-TripBlank 40mlAmb-HCl-Bik	Remarks		Sample # (lab only)		
MW-23-D2R-W-2111					GW				11	X	X	X	X	X	X	X	X						
AMW-15-D2-W-2111					GW				11	X	X	X	X	X	X	X	X						
AMW-15-D3-W-2111					GW				11	X	X	X	X	X	X	X	X						
MW-23-D1R-W-2111					GW				11	X	X	X	X	X	X	X	X						
AMW-15-D1-W-2111					GW				11	X	X	X	X	X	X	X	X						
MW-27-D1R-W-2111					GW				11	X	X	X	X	X	X	X	X						
MW-26-D1-W-2111					GW				11	X	X	X	X	X	X	X	X						
MW-29-D1-W-2111					GW				11	X	X	X	X	X	X	X	X						
AMW-14-D1-W-2111 16				Grab	GW		11/16/21	0120	11	X	X	X	X	X	X	X	X				18 13		
MW-24-D1R-W-2111 16				Grab	GW		11/16/21	2340	11	X	X	X	X	X	X	X	X				19 14		
* 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 # _____																Sample Receipt Checklist COC Seal Present/Intact: ___ NP ___ Y ___ N COC Signed/Accurate: ___ Y ___ N Bottles arrive intact: ___ Y ___ N Correct bottles used: ___ Y ___ N Sufficient volume sent: ___ Y ___ N If Applicable VOA Zero Headspace: ___ Y ___ N Preservation Correct/Checked: ___ Y ___ N RAD Screen <0.5 mR/hr: ___ Y ___ N			
Relinquished by: (Signature)				Date: 11/17/21		Time: 1550		Received by: (Signature)				Trip Blank Received: Yes/No 652 / MeOH TBR											
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: 1.1 ± 0.2 °C 1.1 ± 0.2 Bottles Received: 253				If preservation required by Login: Date/Time							
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature)				Date: 11/18/21				Time: 0930				Hold:		Condition: NCF / OK	

Company Name/Address: Arcadis - Chevron - NY 27-01 Queens Plaza North Suite 800 New York City, NY 11101				Billing Information: Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>5</u> of <u>6</u>	
																					
Report to: Ryan Merrell				Email To: ryan.merrell@arcadis.com;edwin.ptak@arcadis.com																	
Project Description: POD 4 - Oceanside 6518040				City/State Collected:				Please Circle: PT MT CT ET													
Phone: 718-446-0116		Client Project # 30062947.19.21		Lab Project # CHEVARCNY-6518040																	
Collected by (print): <i>Kirk Varney</i> <i>Avi Bell</i>		Site/Facility ID # 6518040		P.O. #																	
Collected by (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 #																	
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed		No. of Cntrs															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		ALK, CI, CO2, SULFATE 250mlHDPE-NoPres	FEICP, MNICP, NAICP 250mlHDPE-HNO3	FERUSFE, FERICFE 250mlAmb-HCl	NO2NO3 250mlHDPE-H2SO4	RSK175 40mlAmb HCl	SULFIDE 250mlAmb-S-NaOH+ZnAc	TOC 250mlHDPE-HCl	V8260TCLC 40mlAmb-HCl	V8260TCLC-TripBlank 40mlAmb-HCl-Bik					
MW-18R-W-2111 <u>16</u>		Grab	GW		11/16/21	2055	11	X	X	X	X	X	X	X	X			20			
BD-W-2111 <u>16</u>		Grab	GW		11/16/21	—	11	X	X	X	X	X	X	X	X			21			
FB-W-2111 <u>16</u>		Grab	GW		11/16/21	2350	11	X	X	X	X	X	X	X	X			22			
FB-W-2111 <u>17</u>		Grab	GW		11/17/21	0145	11	X	X	X	X	X	X	X	X			23			
FB-W-2111			GW				11	X	X	X	X	X	X	X	X						
			GW				11	X	X	X	X	X	X	X	X						
			GW				11	X	X	X	X	X	X	X	X						
			GW				11	X	X	X	X	X	X	X	X						
TB-W-2111			GW				1									X					
TB-W-2111			GW				1									X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:																			
		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier				Tracking #				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☐ Y ☐ N COC Signed/Accurate: ☐ Y ☐ N Bottles arrive intact: ☐ Y ☐ N Correct bottles used: ☐ Y ☐ N Sufficient volume sent: ☐ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☐ Y ☐ N							
Relinquished by: (Signature) <i>[Signature]</i>		Date: 11/17/21		Time: 1550		Received by: (Signature)				Trip Blank Received: Yes/No HCl/MeOH TBR											
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Temp: 12°C 1.1±0.1 Bottles Received: 253				If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature) <i>[Signature]</i>				Date: 11/18/21 Time: 0930				Hold:		Condition: NCF / OK					

[illegible]

<u>Tracking Numbers</u>		<u>Temperature</u>
5433 8383 6357		1.150 = 1.1 A2NS
5433 8383 6379		3.150 = 3.1 A2NS
5433 8383 6405		2.350 = 2.3 A2NS
5433 8383 6388		0.650 = 0.6 A2NS
5433 8383 6416		3.350 = 3.3 A2NS
5433 8383 6380		1.250 = 1.2 A2NS