November 18, 2022

Mr. Nick Psenicnik
Oil Control Program
Maryland Department of the Environment
1800 Washington Blvd, Suite 620
Baltimore, Maryland 21230

RE: **THIRD QUARTER 2022 MONITORING REPORT**
Carroll Independent Fuel/Former Green Valley Citgo
11791 Fingerboard Road
Monrovia, Maryland
OCP Case #2005-0834-FR

Dear Mr. Psenicnik,

Groundwater & Environmental Services, Inc. (GES), on behalf of Carroll Independent Fuel Company, Inc. (CIFC), is pleased to submit the Third Quarter 2022 Monitoring Report for the Carroll/Former Green Valley Citgo facility (Site). In summary, the following activities were conducted at the Site this monitoring period:

- Quarterly fluid-level gauging of nine (9) monitoring wells and six (6) tank field wells was completed August 16, 2022;
- Quarterly sampling of five (5) monitoring wells was completed August 16, 2022;
- Sampling of the potable well at the Green Valley Plaza (GVP) was completed on August 17, 2022; and,
- Sampling at four (4) residential POET systems and two (2) residential potable locations was completed August 17 and September 29, 2022.

On February 15, 2022, GES submitted the Annual Remedial Evaluation Report for 2021 for the Site. The annual report concluded with the request for several reductions to the monitoring program, which included potable sample locations at the Green Valley Plaza (GVP) POET System, 3996 Farm Lane, 3997 Farm Lane, and 3923 Rosewood Road. We look forward to the MDE's response regarding these proposed reductions to the current potable well monitoring program for the case. If you have any questions or would like additional information, please contact the undersigned at 800-220-3606, extension 3705 or 3726, respectively, or Herb Meade at 410-261-5450.

Sincerely,

Amelia Ryan, PE
Project Engineer

Pete Reichardt
Senior Project Manager

Enclosures

c: Nick Psenicnik – MDE (2 additional copies & CD)
Ellen Jackson – MDE (additional copy)
Herb Meade – Carroll (e-copy)
Barry Glotfelty – Frederick County Health Department (CD)
Jennifer and Samir Andrawos – Timbercrest Limited Partnership (CD)
File – GES, MD (PSID# 953231)

MDE Contact:	Mr Nick Psenicnik, Maryland Department of the Environment
Consultant Contact:	Mr. Peter Reichardt, Groundwater & Environmental Services, Inc., Odenton, MD
Client Contact:	Mr. Herb Meade, Carroll Independent Fuel Company, Inc.

SITE DESCRIPTION

Site Use:	Carroll Motor Fuels-Branded Retail Service Station adjacent to Green Valley Plaza (shopping center)
Surrounding Area:	Commercial shopping centers and residential properties
Sensitive Receptors:	Potable Wells – The Site has historically served up to nine (9) onsite supply wells. However, for the reported quarter, only one supply well was noted active (FR-13-0386). Surrounding commercial and residential properties are all served by potable wells. Basements/Underground Receptors – None onsite Surface Water/Wetlands – Fahrney Branch is located approximately 2,400 feet to the south. Hospitals/Childcare/Schools – Green Valley YMCA (Green Valley Plaza)
Date of Most Recent Regulatory Directive Correspondence:	February 18, 2020, GES reported the configuration of the GVP system and the "GVP INF" analytical result to the MDE via email. The MDE responded on February 19, 2020 with a request for status regarding the pending Frederick County Health Department Certificate of Potability (Certificate) for supply well #FR-13-0386. Regulatory correspondence is documented in **Appendix A – Historical Activities Summary**.

SCHEDULE OF ROUTINE ACTIVITIES

Groundwater Sampling:	-Quarterly – Wells MW-7, MW-14D, MW-17, MW18S-R, and MW-18D -Annually – Wells MW-1, MW-4, MW-5 and MW-13 (last sampled during Fourth Quarter of 2021) *Wells MW-2, 6, 8, 9, 10, 11, 12, 14S, 15D, and MW-16 were abandoned and removed from the current monitoring program in 4Q 2017 with MDE approval granted October 17, 2017.
Laboratory Analyses:	Full-suite volatile organic compounds (VOCs), oxygenates including methyl tert-butyl ether (MTBE), and naphthalene via EPA Method 8260.

SCHEDULE OF ROUTINE ACTIVITIES (cont.)

Table 1 summarizes current and historical analytical results from monitoring wells in the sampling program. **Figure 1** presents a Site Map that includes the locations of the monitoring wells, adjacent residences, and important land features.

Monitoring Well Field Data:
-Dissolved Oxygen (DO)
-Oxidation Reduction Potential (ORP)
-pH
-Temperature
-Specific Conductivity

Table 2 presents current and historical field parameters measurements from monitoring wells in the sampling program. The supporting Third Quarter 2022 monitoring well sampling data sheets are attached as **Appendix B**.

Non-Transient, Non-Community Supply Well Sampling

Location	Well Number(s)	Sampling Frequency:
Green Valley Plaza (GVP):	FR-13-0386[A]	Quarterly
	FR-94-1281[B]	Quarterly
	FR-94-1233[B]	Quarterly

[A] Supply well FR-13-0386 appears to be single, active source well for GVP system and therefore is represented by the GVP "Influent" potable well sample.

[B] Historical GVP supply well offline during Third Quarter 2022.

Laboratory Analyses: Target VOCs List, including oxygenates and napthalene, via EPA Method 524.2.

Note: FR-81-5955, FR-88-1394, FR-88-1366, FR-73-4918, FR-73-6674, and FR-73-7687 were removed from the current monitoring program with MDE approval granted July 29, 2015.

Non-Transient, Non-Community Point-of-Entry Treatment (POET) System Sampling

Location	System Diagnostic Sample Locations	Sampling Frequency:
Green Valley Plaza (GVP):	-Influent ("Inf")*	Quarterly

*Per CIFC correspondence to GVP ownership and MDE dated 2/18/22, CIFC will no longer be collecting Mid-fluent or Effluent samples nor will CIFC be responsible for continued maintenance with the GVP POET system.

Laboratory Analyses: Target VOCs List, including oxygenates and naphthalene, via EPA Method 524.2.

Table 3 summarizes current and historical analytical data for the Green Valley Plaza potable supply wells and the Influent, Midfluent, and Effluent diagnostic samples associated to the GVP POET treatment system.

SCHEDULE OF ROUTINE ACTIVITIES (cont.)

Residential Potable Well POET System Sampling

Location	Well Number(s)	Sampling Frequency:
3990 Farm Lane:	FR-73-5449	Quarterly
3992 Farm Lane:	Unknown	Quarterly
3994 Farm Lane:	FR-73-2625	Quarterly
3996 Farm Lane:	FR-73-2625	Quarterly

Laboratory Analyses: Target VOC list including oxygenates (with MTBE) and naphthalene via EPA Method 524.2.

Note: Carroll Fuel was released from POET maintenance at 3997 Farm Lane and 3923 Rosewood Road by the MDE on May 24, 2018. The influent water at these locations is now sampled quarterly.

Table 4 summarizes the current and historical analytical results for the offsite residential POET systems.

Residential Potable Well Sampling

Location	Sampling Frequency:
3997 Farm Lane:	Quarterly
3923 Rosewood Road:	Quarterly

Laboratory Analyses: Target VOC list, including oxygenates (with MTBE), and naphthalene via EPA Method 524.2.

*Note: Resident location 3829 Greenridge Road has been removed from the routine sampling schedule at the request of the property owner. The following residential potable well locations were removed from the current monitoring program with MDE approval granted July 29, 2015:

- 3979, 3981, 3983, 3984A, 3984, 3985, 3987, and 3989 Farm Lane
- 3833, 3835, and 3837 Greenridge Road
- 3737 and 3739 Blueberry Court
- 3992, 3994, 3996, and 3998 Rye Lane

The following residential potable well locations were removed from the current monitoring program with MDE approval granted September 11, 2018:

- 3991, 3993, 3995, and 3998 Farm Lane
- 3740 Blueberry Court

Figure 2 presents a Local Area Map noting the various on and offsite potable and supply wells within the current study area. **Table 5** summarizes the current and historical analytical results for the offsite residential potable wells. All Third Quarter 2022 laboratory reports and chain-of-custody (COC) documentation are attached as **Appendix C**.

FIELD ACTIVITIES

Quarterly Groundwater Sampling Data Summary:

Quarterly Groundwater Sampling Dates:	August 16, 2022
# of Monitoring Wells in study area/# Sampled:	9/5 (5 quarterly-frequency wells)
Groundwater Sampling and Analyses Notes:	The revised routine sampling program outlined in the MDE's response letter, *Site Status and Modifications to Sampling Program* dated October 17, 2017 began implementation in the Fourth Quarter 2017.
Apparent Groundwater Flow Direction:	Local groundwater flow is mapped to move south to southwest across the site and interpreted to move regionally toward the south-southwest.

Figure 3 presents an interpretation of groundwater contours based on water elevations gauged from overburden/weathered rock monitoring wells on August 16, 2022. **Figure 4** presents the Third Quarter 2022 MTBE concentration levels for onsite monitoring wells and both on and offsite potable supply wells. Groundwater well and potable well monitoring graphs are attached as **Appendix D** and **Appendix E** respectively. **Table 6** provides a summary of monitoring well construction details.

Maximum Monitoring Well Concentrations:

Benzene:	Non-detect (method detection limit of 0.10 µg/L)
MTBE:	33 µg/L (MW-18S-R) on August 16, 2022
Naphthalene:	Non-detect (method detection limit of 0.080 µg/L)

REMEDIAL SYSTEM STATUS

No remedial activities took place during the Third Quarter of 2022. Past remedial activities can be referenced in the *ISCO System Comprehensive Summary & Update to the Conceptual Site Model (CSM)* submitted to the MDE on September 28, 2012.

REMEDIAL PERMITS

No remedial permits currently in effect.

FUTURE ACTIVITES

Fourth Quarter 2022:

- GES to continue quarterly sampling of monitoring wells and potable well locations during the Fourth Quarter 2022 monitoring period, unless otherwise directed by the MDE.

- GES to continue annual sampling of monitoring wells during the Fourth Quarter 2022 monitoring period, unless otherwise directed by the MDE.

- GES to coordinate the proper disposal and treatment of groundwater waste generated from groundwater sampling, as needed.

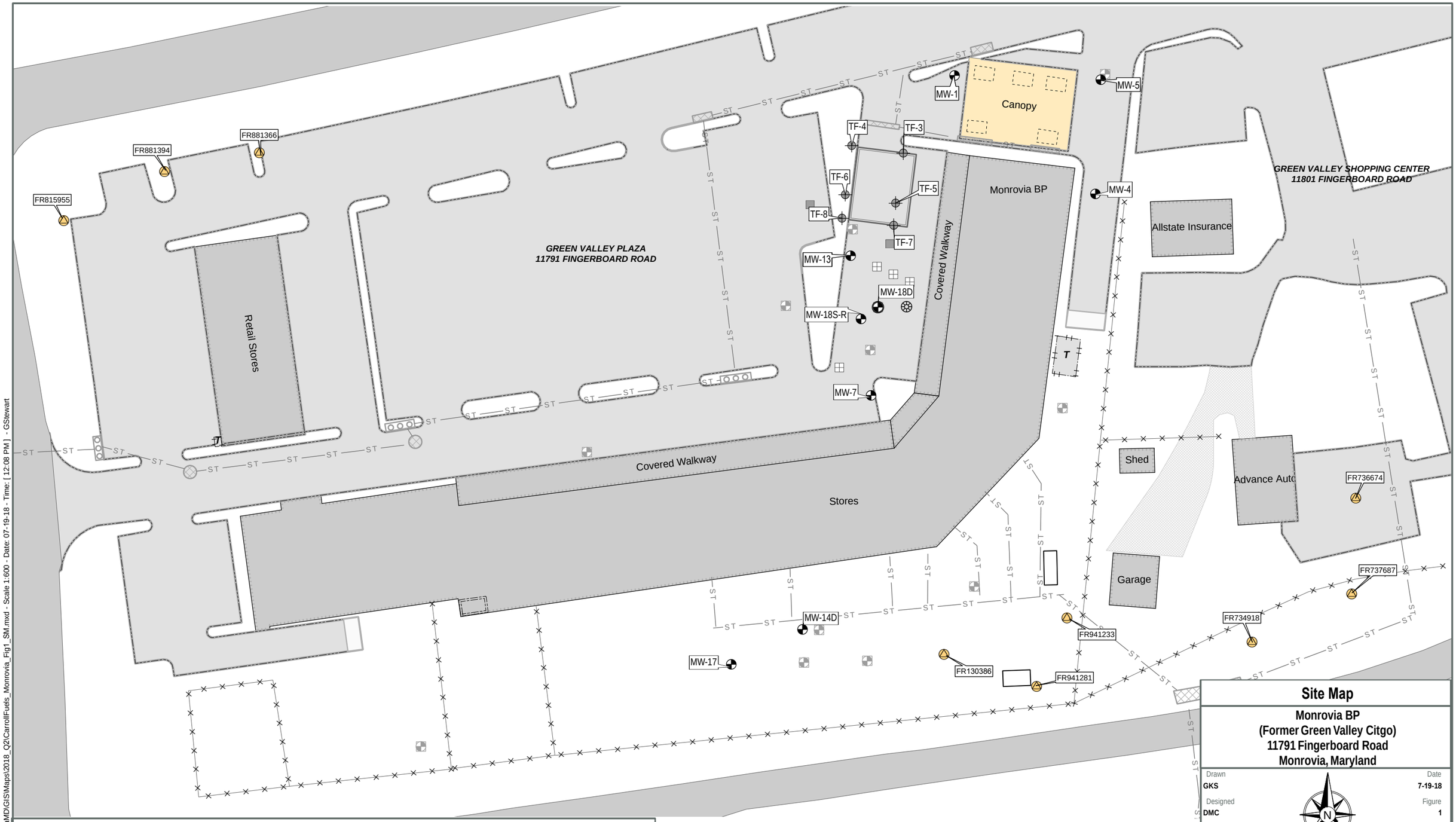
ATTACHMENTS

LIST OF FIGURES

LIST OF TABLES

APPENDICES

FIGURES



Legend

- Abandoned Well
- Monitoring Well
- Potable Well
- Tank Field Well
- Abandoned Soil Vapor Point
- Abandoned Injection Well
- Nested Obs Well
- Abandoned Vapor Extraction Well
- Fence
- Storm Sewer
- Curb Catch Basin
- Catch Basin
- Building
- Canopy
- Dispenser
- Tank Field
- Propane AST
- Pump Room
- Transformer
- Dumpster

Source:
NAIP aerial photograph for Frederick Co. Based on GIS data provided by Environmental Alliance, Inc.

Site Map

Monrovia BP
(Former Green Valley Citgo)
11791 Fingerboard Road
Monrovia, Maryland

Drawn: **GKS**	Date: **7-19-18**
Designed: **DMC**	Figure: **1**
Approved: **LK**	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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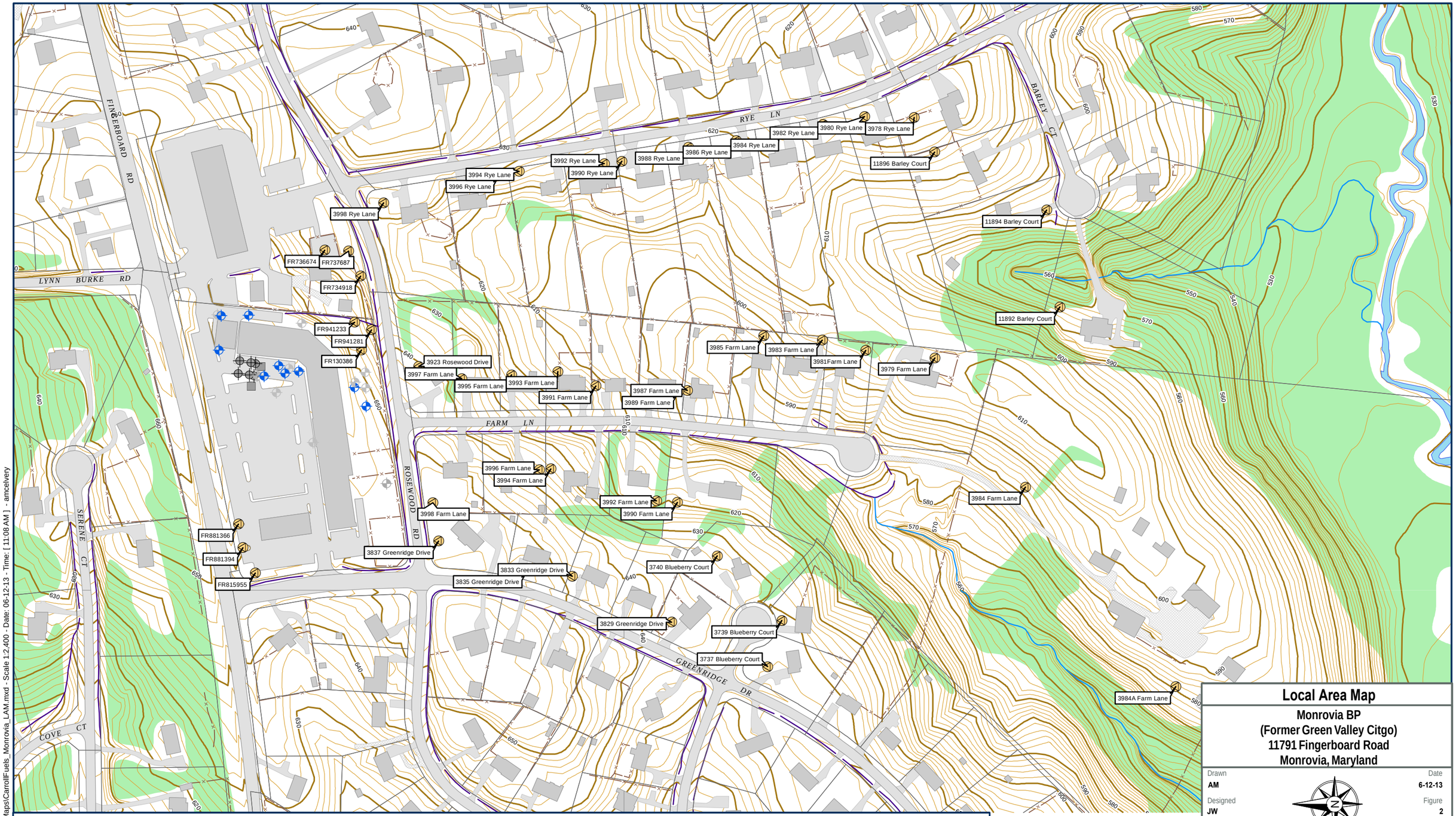

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Legend

- Abandoned Well
- Monitoring Well
- Potable Well
- Tank Field Well
- Abandoned Soil Vapor Point
- Fence
- Topographic Contour (10 ft)
- Intermediate Contour (2 ft)
- Property Boundary
- Building
- Paved Road/Drive
- Unpaved Drive
- Stream
- Ditch
- Water Body
- Wooded Area

Source:
Frederick County GIS

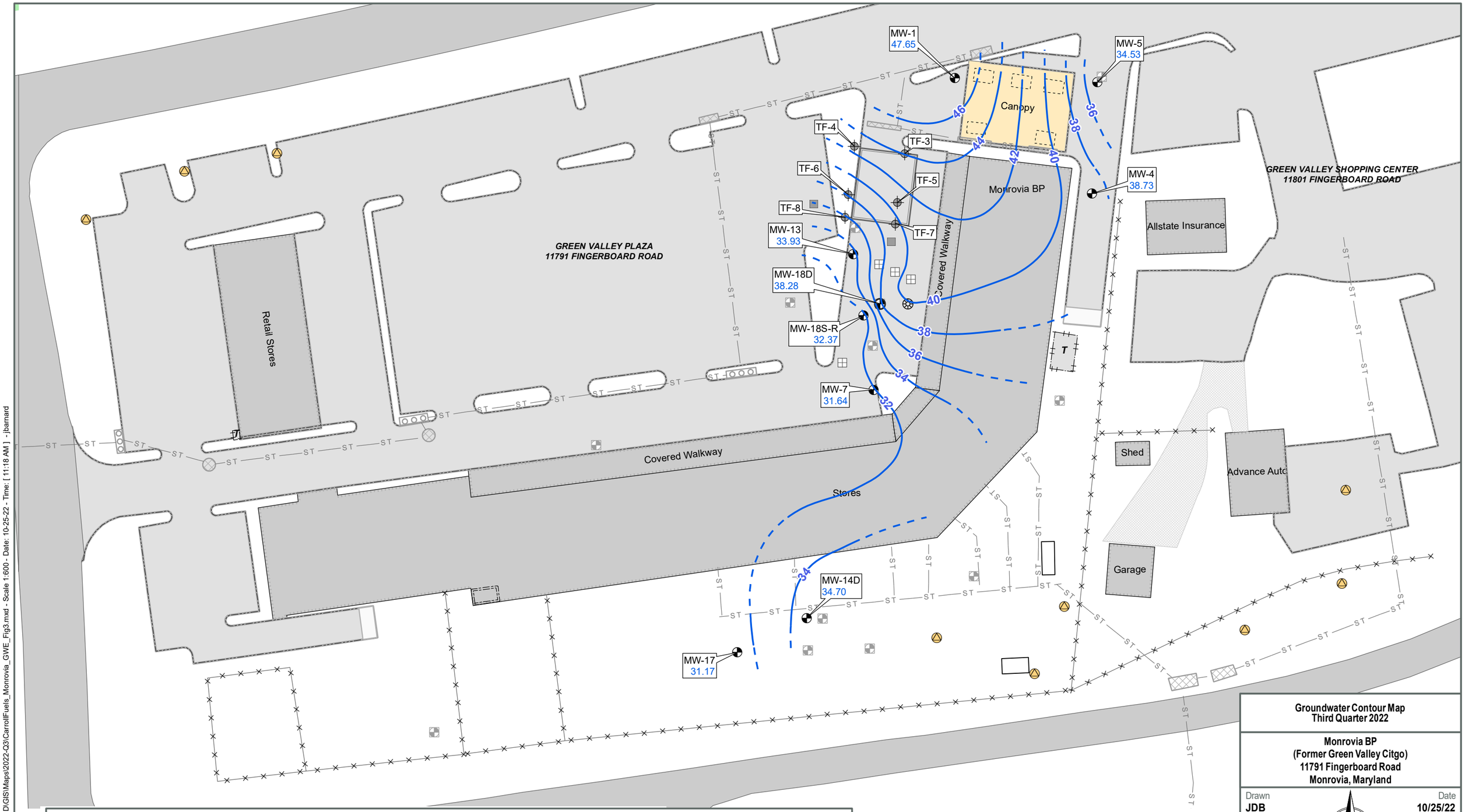
Local Area Map

Monrovia BP
(Former Green Valley Citgo)
11791 Fingerboard Road
Monrovia, Maryland

Drawn	Date
AM	6-12-13
Designed	Figure
JW	2
Approved	
GR	

Scale In Feet (Approximate)
0 200

GES®
Groundwater & Environmental Services, Inc.



Legend

- Abandoned Well
- Monitoring Well
- Potable Well
- Tank Field Well
- Abandoned Soil Vapor Point
- Abandoned Injection Well
- Nested Obs Well
- Abandoned Vapor Extraction Well
- Fence
- Storm Sewer
- Curb Catch Basin
- Catch Basin
- Building
- Canopy
- Dispenser
- Tank Field
- Propane AST
- Pump Room
- Transformer
- Dumpster
- Groundwater Elevation Contour
- Dashed Where Inferred
- 47.65 Groundwater Elevation

Source:
NAIP aerial photograph for Frederick Co. Based on GIS data provided by Environmental Alliance, Inc.

Groundwater Contour Map
Third Quarter 2022

Monrovia BP
(Former Green Valley Citgo)
11791 Fingerboard Road
Monrovia, Maryland

Drawn **JDB**
Designed **DMC**
Approved **LK**
Date **10/25/22**
Figure **3**

Scale In Feet (Approximate)
0 50

GES
Groundwater & Environmental Services, Inc.

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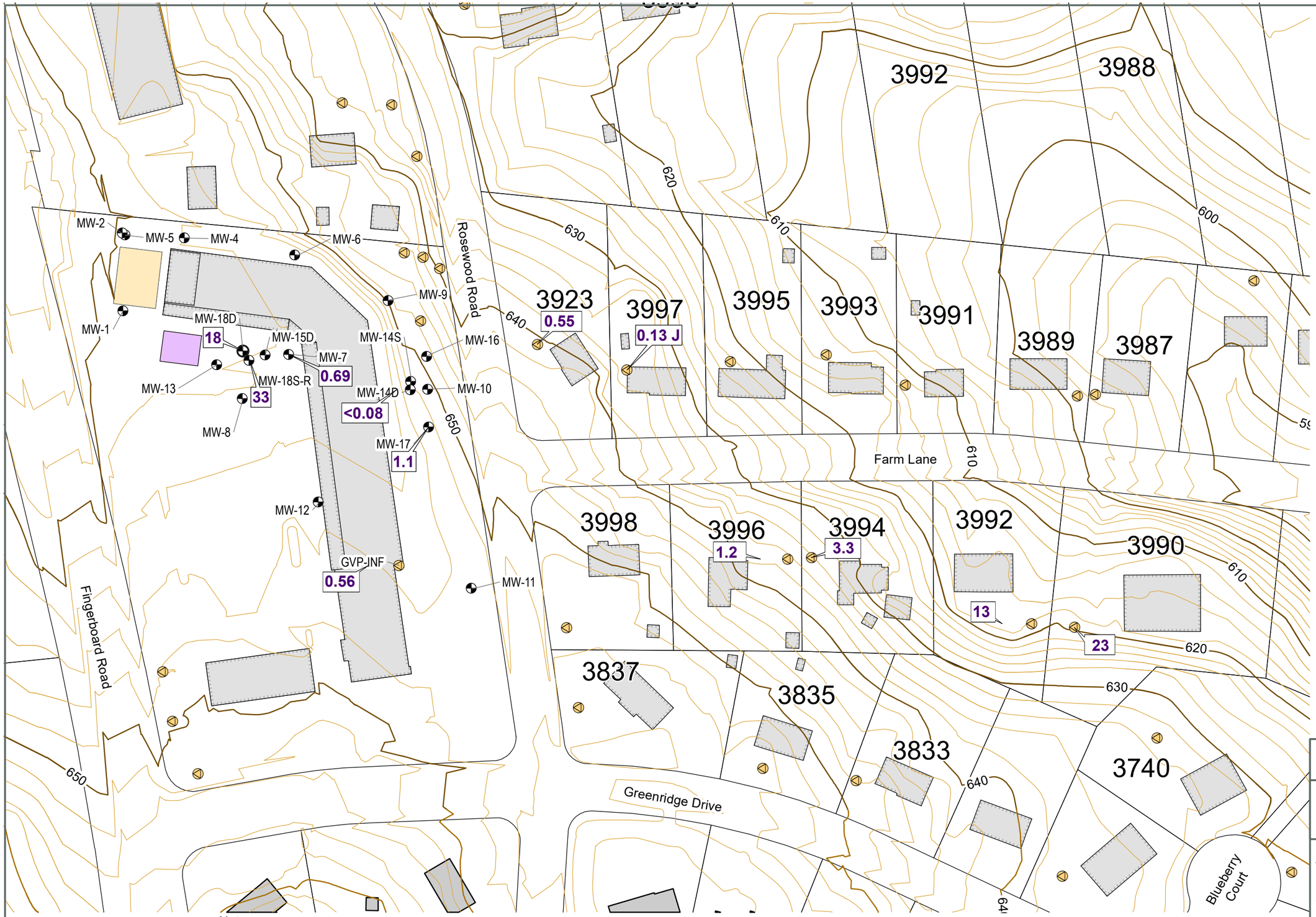

Legend

- Building
- Canopy
- Tank Field
- Monitoring Well
- Potable Well
- Nested Obs Well
- Index Contour
- Intermediate Contour
- 33 MTBE Concentration (ug/L)

Source:
Based on GIS data provided by Environmental Alliance, Inc.

Notes:
All concentrations reported in micrograms per liter (ug/L)
< = Not Detected above laboratory reporting limit
J = Estimated value
MTBE = Methyl tert-butyl ether

Onsite and Residential MTBE Concentration Map - Third Quarter 2022

Monrovia BP
(Former Green Valley Citgo)
11791 Fingerboard Road
Monrovia, Maryland

Drawn **JDB**
Designed **DMC**
Approved **LK**
Date **10/25/22**
Figure **4**

Scale In Feet (Approximate)
0 100

Groundwater & Environmental Services, Inc.

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TABLES

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**
MW-1	08/18/2020	-	99.19	47.51	-	51.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	10/28/2020	LF(60)	99.19	51.78	-	47.41	<0.050	<0.070	<0.060	<0.15	0.88	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.20 J	<0.060	<0.050	<0.060
MW-1	01/20/2021	-	99.19	45.99	-	53.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/05/2021	-	99.19	47.91	-	51.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/03/2021	-	99.19	49.68	-	49.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/01/2021	LF(60)	99.19	47.63	-	51.56	<0.050	<0.070	<0.060	<0.15	0.18 J	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.30 J	<0.060	<0.050	<0.060
MW-1	02/07/2022	-	99.19	50.87	-	48.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/03/2022	-	99.19	48.80	-	50.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/16/2022	-	99.19	51.54	-	47.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/18/2020	-	97.84	56.38	-	41.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	10/28/2020	GRAB	97.84	58.97	60.62	38.87	<0.050	<0.070	<0.060	<0.15	<0.050	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-4	01/20/2021	-	97.84	53.60	-	44.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/05/2021	-	97.84	55.88	-	41.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/03/2021	-	97.84	59.02	-	38.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/01/2021	-	97.84	55.58	-	42.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/02/2021	P&S	97.84	55.58	60.65	42.26	<0.050	<0.070	<0.060	<0.15	0.096 J	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	0.060 J
MW-4	02/07/2022	-	97.84	59.10	-	38.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/03/2022	-	97.84	58.47	-	39.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	08/16/2022	-	97.84	59.11	-	38.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/18/2020	-	99.60	56.17	-	43.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	10/28/2020	LF(68)	99.60	64.36	-	35.24	<0.050	<0.070	<0.060	<0.15	<0.050	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.19 J	<0.060	<0.050	0.11 J
MW-5	01/20/2021	-	99.60	50.07	-	49.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	05/05/2021	-	99.60	56.04	-	43.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/03/2021	-	99.60	62.88	-	36.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	11/01/2021	LF(68)	99.60	55.90	-	43.70	<0.050	<0.070	<0.060	<0.15	<0.050	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.13 J	<0.060	<0.050	0.072 J
MW-5	02/07/2022	-	99.60	64.46	-	35.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	05/03/2022	-	99.60	57.13	-	42.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/16/2022	-	99.60	65.07	-	34.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	08/18/2020	-	97.66	61.12	-	36.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	08/20/2020	LF(69)	97.66	61.18	-	36.48	<0.050	<0.070	<0.060	<0.15	1.4	0.12 J	<0.050	<0.20	<1.1	-	-	<0.060	0.30 J	0.14 J	0.056 J	<0.060
MW-7	10/28/2020	LF(69)	97.66	64.98	-	32.68	<0.050	<0.070	<0.060	<0.15	1.1	0.087 J	<0.050	<0.20	<1.1	-	-	<0.060	0.23 J	<0.060	<0.050	<0.060
MW-7	01/20/2021	-	97.66	57.10	-	40.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	01/21/2021	LF(69)	97.66	57.14	-	40.52	<0.050	<0.070	<0.060	<0.15	5.4	0.26 J	<0.050	<0.20	<1.1	-	-	<0.060	0.2 J	0.38 J	<0.050	<0.060

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**
MW-7	05/05/2021	-	97.66	60.02	-	37.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/06/2021	LF(69)	97.66	60.36	-	37.30	<0.050	<0.070	<0.060	<0.15	1.6	0.13 J	<0.050	<0.20	<1.1	-	-	<0.060	0.25 J	<0.060	<0.050	<0.060
MW-7	08/03/2021	LF(69)	97.66	64.78	-	32.88	<0.050	<0.070	<0.060	<0.15	0.82	0.075 J	<0.050	<0.20	<1.1	-	-	<0.060	0.24 J	<0.060	<0.050	<0.060
MW-7	11/01/2021	LF(69)	97.66	59.12	-	38.54	<0.050	<0.070	<0.060	<0.15	2.3	0.13 J	<0.050	<0.20	<1.1	-	-	<0.060	0.27 J	<0.060	<0.050	<0.060
MW-7	02/07/2022	LF(69)	97.66	65.44	-	32.22	<0.050	<0.070	<0.060	<0.15	0.37 J	0.071 J	<0.050	<0.20	<1.1	-	-	<0.060	0.11 J	<0.060	<0.050	<0.060
MW-7	05/03/2022	LF(69)	97.66	62.71	-	34.95	<0.050	<0.070	<0.060	<0.15	0.85	0.13 J	<0.050	<0.20	<1.1	-	-	0.088 J	0.22 J	<0.060	<0.050	<0.060
MW-7	08/16/2022	LF(69)	97.66	66.02	-	31.64	<0.10	<0.080	<0.080	<0.070	0.69	<0.10	<0.080	<0.20	<3.0	-	-	<0.10	0.17 J	<0.10	<0.080	<0.20
MW-13	08/18/2020	-	98.11	59.39	-	38.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	10/28/2020	LF(73)	98.11	63.73	-	34.38	<0.050	<0.070	<0.060	<0.15	0.79	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.23 J	<0.060	<0.050	<0.060
MW-13	01/20/2021	-	98.11	55.73	-	42.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	05/05/2021	-	98.11	58.76	-	39.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	08/03/2021	-	98.11	62.96	-	35.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	11/01/2021	LF(73)	98.11	57.33	-	40.78	<0.050	<0.070	<0.060	<0.15	3.7	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	0.52	<0.060	<0.050	<0.060
MW-13	02/07/2022	-	98.11	63.22	-	34.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	05/03/2022	-	98.11	61.13	-	36.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	08/16/2022	-	98.11	64.18	-	33.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	08/18/2020	-	92.07	52.65	-	39.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	08/20/2020	LF(212)	92.07	53.08	-	38.99	<0.050	<0.070	<0.060	<0.15	24	0.53	<0.050	0.30 J	7.4 J	-	-	0.56 J	<0.090	0.13 J	<0.050	<0.060
MW-14D	10/28/2020	LF(212)	92.07	57.90	-	34.17	<0.050	<0.070	<0.060	<0.15	1.4	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-14D	01/20/2021	-	92.07	50.10	-	41.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	01/20/2021	LF(212)	92.07	50.10	-	41.97	<0.050	<0.070	<0.060	<0.15	0.081 J	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-14D	05/05/2021	-	92.07	52.53	-	39.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	05/06/2021	LF(212)	92.07	52.63	-	39.44	<0.050	<0.070	<0.060	<0.15	19	0.42 J	<0.050	0.26 J	7.3 J	-	-	0.16 J	<0.090	<0.060	<0.050	<0.060
MW-14D	08/03/2021	-	92.07	57.21	-	34.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	08/04/2021	LF(212)	92.07	57.21	-	34.86	<0.050	<0.070	<0.060	<0.15	22	0.46 J	<0.050	0.35 J	4.6 J	-	-	0.38 J	<0.090	<0.060	<0.050	<0.060
MW-14D	11/01/2021	LF(212)	92.07	51.23	-	40.84	<0.050	<0.070	<0.060	<0.15	23	0.49 J	<0.050	0.32 J	5.9 J	-	-	0.46 J	<0.090	<0.060	<0.050	<0.060
MW-14D	02/08/2022	LF(212)	92.07	57.68	-	34.39	<0.050	<0.070	<0.060	<0.15	<0.050	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-14D	05/03/2022	-	92.07	56.16	-	35.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14D	05/04/2022	LF(212)	92.07	56.01	-	36.06	<0.050	<0.070	<0.060	<0.15	21	0.48 J	<0.050	0.28 J	6.3 J	-	-	0.49 J	<0.090	<0.060	<0.050	<0.060
MW-14D	08/16/2022	LF(212)	92.07	57.37	-	34.70	<0.10	<0.080	<0.080	<0.070	<0.080	<0.10	<0.080	<0.20	<3.0	-	-	<0.10	<0.090	<0.10	<0.080	<0.20
MW-17	08/18/2020	-	92.84	55.89	-	36.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	08/20/2020	LF(68)	92.84	55.81	-	37.03	<0.050	<0.070	<0.060	<0.15	0.92	0.33 J	<0.050	<0.20	<1.1	-	-	<0.060	0.47 J	0.13 J	<0.050	<0.060
MW-17	10/28/2020	LF(68)	92.84	59.68	-	33.16	<0.050	<0.070	<0.060	<0.15	0.65	0.29 J	<0.050	<0.20	<1.1	-	-	0.20 J	0.38 J	<0.060	<0.050	<0.060

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**
MW-17	01/20/2021	-	92.84	51.81	-	41.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	01/20/2021	LF(68)	92.84	51.81	-	41.03	<0.050	<0.070	<0.060	<0.15	0.99	0.31 J	<0.050	<0.20	<1.1	-	-	<0.060	0.31 J	<0.060	<0.050	<0.060
MW-17	05/05/2021	-	92.84	54.64	-	38.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	05/06/2021	LF(68)	92.84	55.10	-	37.74	<0.050	<0.070	<0.060	<0.15	1.1	0.31 J	<0.050	<0.20	2.1 J	-	-	<0.060	0.34 J	<0.060	<0.050	<0.060
MW-17	08/03/2021	LF(68)	92.84	60.20	-	32.64	<0.050	<0.070	<0.060	<0.15	0.92	0.20 J	<0.050	<0.20	<1.1	-	-	<0.060	0.39 J	<0.060	<0.050	<0.060
MW-17	11/01/2021	LF(68)	92.84	53.77	-	39.07	<0.050	<0.070	<0.060	<0.15	0.70	0.24 J	<0.050	<0.20	<1.1	-	-	<0.060	0.36 J	<0.060	<0.050	<0.060
MW-17	02/07/2022	LF(68)	92.84	60.33	-	32.51	<0.050	<0.070	<0.060	<0.15	0.53	0.20 J	<0.050	<0.20	<1.1	-	-	<0.060	0.28 J	<0.060	<0.050	<0.060
MW-17	05/03/2022	-	92.84	57.41	-	35.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	05/04/2022	LF(68)	92.84	57.40	-	35.44	<0.050	<0.070	<0.060	<0.15	0.45 J	0.21 J	<0.050	<0.20	<1.1	-	-	<0.060	0.28 J	<0.060	<0.050	<0.060
MW-17	08/16/2022	LF(68)	92.84	61.67	-	31.17	<0.10	<0.080	<0.080	<0.070	1.1	0.22 J	<0.080	<0.20	<3.0	-	-	<0.10	0.35 J	<0.10	<0.080	<0.20
MW-18S-R	08/18/2020	-	97.72	60.49	-	37.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	08/20/2020	LF(68)	97.72	60.60	-	37.12	<0.050	<0.070	<0.060	<0.15	5.0	0.24 J	<0.050	<0.20	<1.1	-	-	<0.060	0.29 J	0.16 J	<0.050	<0.060
MW-18S-R	10/28/2020	LF(68)	97.72	64.59	-	33.13	<0.050	<0.070	<0.060	<0.15	**300**	2.6	<0.050	6.1	1.3 J	-	-	<0.060	0.23 J	<0.060	<0.050	<0.060
MW-18S-R	01/20/2021	-	97.72	56.51	-	41.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	01/21/2021	LF(68)	97.72	56.52	-	41.20	<0.050	<0.070	<0.060	<0.15	11	0.25 J	<0.050	<0.20	<1.1	-	-	<0.060	0.22 J	<0.060	<0.050	<0.060
MW-18S-R	05/05/2021	-	97.72	59.53	-	38.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	05/06/2021	LF(68)	97.72	59.79	-	37.93	<0.050	<0.070	<0.060	<0.15	23	0.39 J	<0.050	0.40 J	1.2 J	-	-	<0.060	0.24 J	<0.060	<0.050	<0.060
MW-18S-R	08/03/2021	-	97.72	64.35	-	33.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	08/04/2021	LF(68)	97.72	64.35	-	33.37	<0.050	<0.070	<0.060	<0.15	190	2.0	<0.050	3.8	<1.1	-	-	<0.060	0.24 J	<0.060	<0.050	<0.060
MW-18S-R	11/01/2021	-	97.72	58.56	-	39.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	11/02/2021	LF(68)	97.72	58.56	-	39.16	<0.050	<0.070	<0.060	<0.15	20	0.39 J	<0.050	0.24 J	<1.1	-	-	<0.060	0.21 J	<0.060	<0.050	<0.060
MW-18S-R	02/08/2022	LF(68)	97.72	64.73	-	32.99	<0.050	<0.070	<0.060	<0.15	89	1.3	<0.050	1.6	<1.1	-	-	<0.060	0.19 J	<0.060	<0.050	<0.060
MW-18S-R	05/03/2022	-	97.72	62.25	-	35.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18S-R	05/04/2022	LR(68)	97.72	62.23	-	35.49	<0.050	<0.070	<0.060	<0.15	9.4	0.31 J	<0.050	<0.20	<1.1	-	-	<0.060	0.19 J	<0.060	<0.050	<0.060
MW-18S-R	08/16/2022	LF(68)	97.72	65.35	-	32.37	<0.10	<0.080	<0.080	<0.070	33	0.56	<0.080	0.32 J	4.4 J	-	-	<0.10	0.19 J	<0.10	<0.080	<0.20
MW-18D	08/18/2020	-	98.31	55.30	-	43.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	08/20/2020	LF(125)	98.31	55.40	-	42.91	<0.050	<0.070	<0.060	<0.15	14	0.15 J	<0.050	0.27 J	3.6 J	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-18D	10/28/2020	LF(125)	98.31	59.90	-	38.41	<0.050	<0.070	<0.060	<0.15	1.2	<0.050	<0.050	<0.20	<1.1	-	-	0.21 J	<0.090	<0.060	<0.050	<0.060
MW-18D	01/20/2021	-	98.31	55.42	-	42.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	01/21/2021	LF(125)	98.31	55.35	-	42.96	<0.050	<0.070	<0.060	<0.15	11	0.068 J	<0.050	0.22 J	5.2 J	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-18D	05/05/2021	-	98.31	55.50	-	42.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	05/06/2021	LF(125)	98.31	55.55	-	42.76	<0.050	<0.070	<0.060	<0.15	47	0.41 J	<0.050	1.0	16	-	-	0.079 J	<0.090	<0.060	<0.050	<0.060

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**
MW-18D	08/03/2021	-	98.31	60.13	-	38.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	08/04/2021	LF(125)	98.31	60.13	-	38.18	<0.050	<0.070	<0.060	<0.15	40	0.32 J	<0.050	0.95	11	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-18D	11/01/2021	-	98.31	54.70	-	43.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	11/02/2021	LF(125)	98.31	54.70	-	43.61	<0.050	<0.070	<0.060	<0.15	24	0.20 J	<0.050	0.42 J	5.9 J	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-18D	02/08/2022	LF(125)	98.31	59.55	-	38.76	<0.050	<0.070	<0.060	<0.15	<0.050	<0.050	<0.050	<0.20	<1.1	-	-	<0.060	<0.090	<0.060	<0.050	<0.060
MW-18D	05/03/2022	-	98.31	60.14	-	38.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-18D	05/04/2022	LF(125)	98.31	60.08	-	38.23	<0.050	<0.070	<0.060	<0.15	17	0.17 J	<0.050	0.30 J	2.5 J	-	-	0.11 J	<0.090	<0.060	<0.050	<0.060
MW-18D	08/16/2022	LF(125)	98.31	60.03	-	38.28	<0.10	<0.080	<0.080	<0.070	18	0.16 J	<0.080	0.30 J	<3.0	-	-	<0.10	<0.090	<0.10	<0.080	<0.20
TF-3	08/18/2020	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	10/28/2020	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	01/20/2021	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	05/05/2021	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	08/03/2021	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	11/01/2021	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	02/07/2022	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	05/03/2022	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-3	08/16/2022	-	NR	DRY	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	08/18/2020	-	NR	DRY	14.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	10/28/2020	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	01/20/2021	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	05/05/2021	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	08/03/2021	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	11/01/2021	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	02/07/2022	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	05/03/2022	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-4	08/16/2022	-	NR	DRY	14.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	08/18/2020	-	NR	13.85	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	10/28/2020	-	NR	14.02	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	01/20/2021	-	NR	14.04	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	05/05/2021	-	NR	14.05	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	08/03/2021	-	NR	14.08	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	11/01/2021	-	NR	14.20	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	02/07/2022	-	NR	14.22	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**
TF-5	05/03/2022	-	NR	14.21	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-5	08/16/2022	-	NR	14.21	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	08/18/2020	-	NR	13.49	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	10/28/2020	-	NR	13.52	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	01/20/2021	-	NR	13.52	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	05/05/2021	-	NR	13.35	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	08/03/2021	-	NR	13.38	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	11/01/2021	-	NR	13.45	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	02/07/2022	-	NR	13.48	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	05/03/2022	-	NR	13.45	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-6	08/16/2022	-	NR	13.44	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	10/28/2020	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	01/20/2021	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	05/05/2021	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	08/03/2021	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	11/01/2021	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	02/07/2022	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	05/03/2022	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-7	08/16/2022	-	NR	DRY	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	10/28/2020	-	NR	11.45	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	01/20/2021	-	NR	11.45	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	05/05/2021	-	NR	11.48	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	08/03/2021	-	NR	11.52	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	11/01/2021	-	NR	11.45	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	02/07/2022	-	NR	11.47	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	05/03/2022	-	NR	11.47	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TF-8	08/16/2022	-	NR	11.47	11.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: Compounds of concern and detected compounds are summarized in the data table and all analytical results can be found in the Laboratory Reports and Chain of Custody Documentation.
* Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers (2018)

LF (##) = Low Flow ground water sampling method (depth that the sample was taken at in feet)
GRAB = Grab sample method
DRY = No water for sampling

Table 1

HISTORICAL MONITORING WELL ANALYTICAL DATA SUMMARY- VOC & TPH PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Sample Method	Top of Casing (ft)	Depth to Water (ft)	Depth to Bottom (Measured Depth) (ft)	GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	Carbon Disulfide (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Naphthalene (µg/L)	Tetrachloroethene (µg/L)
GW Clean-up Standards*							**5**	**1,000**	**700**	**10,000**	**20**	**NA**	**NA**	**NA**	**NA**	**47**	**47**	**81**	**80**	**19**	**0.17**	**5**

P&S = Purge & Sample method
<# = Less than the method detection limit
µg/L = Micrograms per liter
J = Detected between the Method Detection Limit (MDL) and the Reporting Limit (RL); therefore, result is an estimated value.
MTBE = Methyl Tertiary Butyl Ether
NA/(-) = Not Available or Not Analyzed for that specific compound
NR/(-) = Not recorded
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
VOC = Volatile Organic Compounds

Table 2

HISTORICAL MONITORING WELL FIELD PARAMETERS DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Well Temperature (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Well pH	ORP (mV)
MW-1	10/28/2020	16.68	778	7.67	4.95	334.4
MW-1	11/01/2021	15.27	857	7.55	5.26	227.3
MW-4	10/28/2020	17.10	367	6.46	5.22	314.6
MW-4	11/02/2021	15.50	300	7.20	4.92	237.0
MW-5	10/28/2020	16.68	812	7.86	5.17	334.6
MW-5	11/01/2021	15.96	668	7.54	5.39	231.5
MW-7	08/20/2020	16.84	1,260	2.45	5.11	256.9
MW-7	10/28/2020	16.57	918	4.38	5.37	314.2
MW-7	01/21/2021	14.74	1,015	2.60	5.23	164.5
MW-7	05/06/2021	15.18	893	3.72	5.12	179.3
MW-7	08/03/2021	18.59	934	5.93	4.61	186.0
MW-7	11/01/2021	15.34	916	3.27	5.27	178.6
MW-7	02/07/2022	14.70	806	8.02	5.88	240
MW-7	05/03/2022	15.86	892	4.30	6.19	93.7
MW-7	08/16/2022	17.72	1,014	7.46	6.07	179.1
MW-13	10/28/2020	16.94	1,059	3.98	5.00	316.2
MW-13	11/01/2021	17.14	982	4.59	4.93	235.0
MW-14D	08/20/2020	18.91	501	0.59	8.25	-133.9
MW-14D	10/30/2020	13.86	247	1.96	8.00	252.6
MW-14D	01/20/2021	14.95	325	0.45	6.92	130.2
MW-14D	05/06/2021	22.42	352	1.46	7.89	-80.2
MW-14D	08/04/2021	15.97	319	1.11	7.77	18.4
MW-14D	11/01/2021	15.49	295	0.37	8.33	-192.2
MW-14D	02/08/2022	15.04	250	2.98	7.03	208
MW-14D	05/04/2022	15.45	300	0.71	8.93	-115.9
MW-14D	08/16/2022	16.43	277	1.44	6.92	162.3
MW-17	08/20/2020	16.18	1,230	1.65	5.63	222.0
MW-17	10/30/2020	14.94	964	3.99	5.68	318.6
MW-17	01/20/2021	14.92	1,186	2.31	5.47	134.2
MW-17	05/06/2021	15.90	935	2.71	5.34	191.3
MW-17	08/03/2021	17.16	1,062	4.79	4.70	208.3
MW-17	11/01/2021	15.11	915	2.43	5.56	205.2
MW-17	02/07/2022	14.40	926	7.67	5.85	247
MW-17	05/04/2022	14.92	946	3.30	6.48	39.5
MW-17	08/16/2022	16.38	1,092	4.40	5.51	191.6
MW-18S-R	08/20/2020	17.17	1,143	4.21	4.89	244.6
MW-18S-R	10/30/2020	16.07	1,516	1.28	6.74	174.7
MW-18S-R	05/06/2021	17.52	1,087	2.82	5.08	176.2
MW-18S-R	08/04/2021	17.49	1,726	2.47	5.72	116.0
MW-18S-R	11/02/2021	15.30	834	4.58	5.23	246.0

Table 2

HISTORICAL MONITORING WELL FIELD PARAMETERS DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Well Temperature (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Well pH	ORP (mV)
MW-18S-R	02/08/2022	15.32	1,520	0.81	5.57	230
MW-18S-R	05/04/2022	17.54	1,056	3.35	6.03	103.2
MW-18S-R	08/16/2022	17.79	1,265	3.54	5.18	165.8
MW-18D	08/20/2020	19.26	6,242	0.72	8.01	-144.7
MW-18D	10/30/2020	15.44	612	1.49	7.50	111.3
MW-18D	01/21/2021	14.42	1,460	5.32	111.3	54.3
MW-18D	05/06/2021	18.34	4,951	0.33	7.79	-130.2
MW-18D	08/04/2021	18.89	4,987	0.64	7.68	-105.6
MW-18D	11/02/2021	14.85	4,115	2.23	7.85	-120.4
MW-18D	02/08/2022	14.38	4,260	2.86	7.30	199
MW-18D	05/04/2022	17.75	3,930	0.40	8.28	-15.0
MW-18D	08/16/2022	17.73	3,784	0.63	7.73	-116.9

Notes:

As of Third Quarter 2015, this table will reflect stabilized ground water parameter readings measured and recorded during low flow sampling of select monitoring wells instead of down-well readings taken prior to sampling.

(##) = Depth to bottom of well (ft)
[##] = Length of the Screened Interval (ft)
{##} = Well Diameter (in)
°C = Degrees Celsius
µS/cm = Microsiemens per centimeter
mg/L = Milligrams per liter
mV = Millivolts
NR = Not Recorded
ppm = Parts per million
(#)[1] = Results for ORP from the October 2015 sampling event were determined to be anomalous, likely due to an equipment malfunction
(#)[2] = Results for dissolved oxygen were deteremined to be anomalous, likely due to an equipment malfunction

Table 3

HISTORICAL GVP POTABLE WELL AND POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Carbon Change	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**20**	**NL**	**NL**	**NL**	**NL**	**0.17**	**47**	**47**
GVP-INF[A]	08/18/2020		-	<0.10	<0.10	<0.10	<0.10	0.48 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	10/30/2020		-	<0.10	<0.10	<0.10	<0.10	0.62	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	01/20/2021		-	<0.10	<0.10	<0.10	<0.10	0.36 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	05/05/2021		-	<0.10	<0.10	<0.10	<0.10	0.62	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	08/04/2021		-	<0.10	<0.10	<0.10	<0.10	0.54	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	10/28/2021		-	<0.10	<0.10	<0.10	<0.10	0.35 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	02/07/2022		-	<0.10	<0.10	<0.10	<0.10	0.30 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	05/03/2022		-	<0.10	<0.10	<0.10	<0.10	0.28 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-INF[A]	08/17/2022		-	<0.10	<0.10	<0.10	<0.10	0.56	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	08/18/2020		-	<0.10	<0.10	<0.10	<0.10	0.52	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	10/30/2020		-	<0.10	<0.10	<0.10	<0.10	0.50	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	01/20/2021		-	<0.10	<0.10	<0.10	<0.10	0.42 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	05/05/2021		-	<0.10	<0.10	<0.10	<0.10	0.54	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	08/04/2021		-	<0.10	<0.10	<0.10	<0.10	0.50	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	10/28/2021		-	<0.10	<0.10	<0.10	<0.10	0.50	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	02/07/2022		-	<0.10	<0.10	<0.10	<0.10	0.33 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-MID	05/03/2022		-	<0.10	<0.10	<0.10	<0.10	0.40 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	08/18/2020		11,664,000	<0.10	<0.10	<0.10	<0.10	0.30 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	10/30/2020		11,805,506	<0.10	<0.10	<0.10	<0.10	0.28 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	01/20/2021		11,988,900	<0.10	<0.10	<0.10	<0.10	0.29 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	05/05/2021		12,303,055	<0.10	<0.10	<0.10	<0.10	0.40 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	08/04/2021		12,497,635	<0.10	<0.10	<0.10	<0.10	0.31 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	10/28/2021		12,642,500	<0.10	<0.10	<0.10	<0.10	0.48 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	02/07/2022		12,800,392	<0.10	<0.10	<0.10	<0.10	0.26 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	05/03/2022		12,954,323	<0.10	<0.10	<0.10	<0.10	0.43 J	<0.10	<0.10	<0.10	<2.5	<0.20	NA	NA
GVP-EFF	08/17/2022		13,171,000	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Table 3

HISTORICAL GVP POTABLE WELL AND POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Carbon Change	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Diisopropyl ether (µg/L)	Ethyl tert-butyl ether (µg/L)	Tert-amyl methyl ether (µg/L)	Tert-Butyl Alcohol (µg/L)	Naphthalene (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**20**	**NL**	**NL**	**NL**	**NL**	**0.17**	**47**	**47**

* Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers (2018)

GVP-INF[A] = GVP INF conc. also reflects the conc. for GVP supply well FR-13-0386
<# = Less than the method detection limit of #
µg/L = Micrograms per liter
BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylene. Total BTEX is a sum of detected concentrations of these chemicals, including estimated concentrations (identified with a "J"). If BTEX is non-detect, Total BTEX is the sum of the reporting limits.
EFF = Effluent sample location
gal = Gallons
GVP = Green Valley Plaza
INF = Influent sample location
J = Detected between the Method Detection Limit (MDL) and the Reporting Limit (RL); therefore, result is an estimated value.
mg/L = Milligrams per liter
MID = Midfluent sample location
MTBE = Methyl Tertiary Butyl Ether
NL = No Limit (Screening)
NR = Not Recorded
POET = Point of Entry Treatment
- = No Data Available
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

Table 4

HISTORICAL RESIDENTIAL POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**
3923-ROSE-INF	08/20/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	0.34 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	10/30/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	0.71	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	0.32 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.56	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.39 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.29 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.52	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3923-ROSE-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.55	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-INF	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	33	<0.20	<2.5	0.25 J	<0.10	0.60	<0.10
3990-FARM-INF	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	34	<0.20	<2.5	0.29 J	<0.10	0.57	<0.10
3990-FARM-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	25	<0.20	<2.5	0.21 J	<0.10	0.55	<0.10
3990-FARM-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	27	<0.20	<2.5	0.19 J	<0.10	0.45 J	<0.10
3990-FARM-INF	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	22	<0.20	4.1 J	<0.10	<0.10	0.49 J	<0.10
3990-FARM-INF	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	26	<0.20	<2.5	0.24 J	<0.10	0.37 J	<0.10
3990-FARM-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	22	<0.20	<2.5	0.22 J	<0.10	0.57	<0.10
3990-FARM-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	22	<0.20	<2.5	0.21 J	<0.10	0.42 J	<0.10
3990-FARM-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	23	<0.20	<2.5	<0.10	<0.10	0.50	<0.10
3990-FARM-MID2	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	5.3 J	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-MID2	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	08/18/2020	-	133,550	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10

Table 4

HISTORICAL RESIDENTIAL POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**
3990-FARM-EFF	10/28/2020	-	137,555	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	01/20/2021	-	142,000	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	05/05/2021	-	147,594	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	3.5 J	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	05/20/2021	CARBON CHANGE	148,500	-	-	-	-	-	-	-	-	-	-	-	-
3990-FARM-EFF	08/03/2021	-	148,936	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	10/28/2021	-	154,641	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	02/07/2022	-	158,808	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	05/03/2022	-	163,658	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3990-FARM-EFF	08/17/2022	-	169,801	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-INF	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	18	<0.20	<2.5	0.16 J	<0.10	0.34 J	<0.10
3992-FARM-INF	11/11/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	20	<0.20	<2.5	0.16 J	<0.10	0.32 J	<0.10
3992-FARM-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	14	<0.20	<2.5	0.12 J	<0.10	0.28 J	<0.10
3992-FARM-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	14	<0.20	<2.5	0.13 J	<0.10	0.24 J	<0.10
3992-FARM-INF	08/04/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	14	<0.20	<2.5	0.11 J	<0.10	0.29 J	<0.10
3992-FARM-INF	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	17	<0.20	<2.5	0.15 J	<0.10	0.23 J	<0.10
3992-FARM-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	12	<0.20	<2.5	0.11 J	<0.10	0.32 J	<0.10
3992-FARM-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	13	<0.20	<2.5	0.12 J	<0.10	0.24 J	<0.10
3992-FARM-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	13	<0.20	<2.5	0.11 J	<0.10	0.27 J	<0.10
3992-FARM-MID2	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	11/11/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	08/04/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-MID2	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	08/18/2020	-	4,973	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10

Table 4

HISTORICAL RESIDENTIAL POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**
3992-FARM-EFF	11/11/2020	-	10,551	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	01/20/2021	-	18,359	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	05/05/2021	-	28,349	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	08/04/2021	-	33,576	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	08/19/2021	CARBON CHANGE	-	-	-	-	-	-	-	-	-	-	-	-	-
3992-FARM-EFF	10/28/2021	-	39,012	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	02/07/2022	-	48,236	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	05/03/2022	-	55,775	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3992-FARM-EFF	08/17/2022	-	64,156	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-INF	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	9.3	<0.20	<2.5	<0.10	<0.10	0.19 J	<0.10
3994-FARM-INF	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	7.4	<0.20	<2.5	<0.10	<0.10	0.13 J	<0.10
3994-FARM-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	5.9	<0.20	<2.5	<0.10	<0.10	0.14 J	<0.10
3994-FARM-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	7.4	<0.20	3.3 J	<0.10	<0.10	<0.10	<0.10
3994-FARM-INF	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	5.3	<0.20	2.6 J	<0.10	<0.10	0.12 J	<0.10
3994-FARM-INF	11/02/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	8.3	<0.20	<2.5	<0.10	<0.10	0.12 J	<0.10
3994-FARM-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	4.5	<0.20	<2.5	<0.10	<0.10	0.12 J	<0.10
3994-FARM-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	4.6	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	3.3	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	2.7 J	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	11/02/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-MID2	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	08/18/2020	-	556,713	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10

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11791 Fingerboard Rd
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Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**
3994-FARM-EFF	10/28/2020	-	564,629	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	01/20/2021	-	573,893	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	05/05/2021	-	584,594	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	08/03/2021	-	592,235	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	11/02/2021	-	599,803	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	02/07/2022	-	609,053	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	05/03/2022	-	616,064	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3994-FARM-EFF	08/17/2022	-	628,757	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	2.7 J	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	1.9	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	1.6	<0.20	2.5 J	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	1.2	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	1.4	<0.20	3.4 J	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.97	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	1.3	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.88	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.91	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	1.2	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	2.8 J	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-MID2	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	08/18/2020	-	1,109,105	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	10/28/2020	-	1,127,825	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	3.0 J	<0.10	<0.10	<0.10	<0.10

Table 4

HISTORICAL RESIDENTIAL POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**
3996-FARM-EFF	01/20/2021	-	1,140,500	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	05/05/2021	-	1,166,330	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	08/03/2021	-	1,196,186	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	10/28/2021	-	1,213,667	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	12/20/2021	CARBON CHANGE	1,219,100	-	-	-	-	-	-	-	-	-	-	-	-
3996-FARM-EFF	02/07/2022	-	1,225,594	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	05/03/2022	-	1,235,081	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3996-FARM-EFF	08/17/2022	-	1,258,964	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	08/18/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	10/28/2020	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	0.19 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	01/20/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.4	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	05/05/2021	-	-	<0.10	<0.10	<0.10	<0.10	<0.40	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	08/03/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.12 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	10/28/2021	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.14 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	02/07/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	05/03/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.11 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10
3997-FARM-INF	08/17/2022	-	-	<0.10	<0.10	<0.10	<0.10	NA	0.13 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10

Notes:

* Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers

<# = less than the method detection limit of #

µg/L = Micrograms/Liter

J = Result is between the method detection and reporting limits; therefore, result is estimated.

EFF = Effluent sample location

INF = Influent sample location

MID2 = Second midfluent sample location

MTBE = Methyl Tertiary Butyl Ether

NA = Not Available or Not Analyzed for that specific compound

Table 4

HISTORICAL RESIDENTIAL POET SYSTEM DATA SUMMARY

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	CARBON CHANGE	POET Totalizer (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)
GW Clean-up Standards*				**5**	**1,000**	**700**	**10,000**	**NL**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**

NL = No Limit (screening)
- = No Data Available

* GW Clean-up Standards are the Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers from MDE's "Cleanup Standards for Soil and Groundwater" June 2008

NA = Not Analyzed

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylene. Total BTEX is a sum of detected concentrations of these chemicals, including estimated concentrations (identified with a "J"). If BTEX is non-detect, total BTEX is sum of the reporting limits.

VOC = Volatile Organic Compounds

Table 5

HISTORICAL RESIDENTIAL POTABLE WELL DATA SUMMARY- VOC PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)	tert-amyl ethyl ether (µg/L)	tert-Butylbenzene (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**	**NL**	**NL**
3923-ROSE-INF	10/30/2020	<0.10	<0.10	<0.10	<0.10	0.71	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	0.32 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	08/03/2021	<0.10	<0.10	<0.10	<0.10	0.56	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	10/28/2021	<0.10	<0.10	<0.10	<0.10	0.39 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	0.29 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	0.52	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3923-ROSE-INF	08/17/2022	<0.10	<0.10	<0.10	<0.10	0.55	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3990-FARM-INF	10/28/2020	<0.10	<0.10	<0.10	<0.10	34	<0.20	<2.5	0.29 J	<0.10	0.57	<0.10	NA	NA
3990-FARM-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	25	<0.20	<2.5	0.21 J	<0.10	0.55	<0.10	NA	NA
3990-FARM-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	27	<0.20	<2.5	0.19 J	<0.10	0.45 J	<0.10	NA	NA
3990-FARM-INF	08/03/2021	<0.10	<0.10	<0.10	<0.10	22	<0.20	4.1 J	<0.10	<0.10	0.49 J	<0.10	NA	NA
3990-FARM-INF	10/28/2021	<0.10	<0.10	<0.10	<0.10	26	<0.20	<2.5	0.24 J	<0.10	0.37 J	<0.10	NA	NA
3990-FARM-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	22	<0.20	<2.5	0.22 J	<0.10	0.57	<0.10	NA	NA
3990-FARM-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	22	<0.20	<2.5	0.21 J	<0.10	0.42	<0.10	NA	NA
3990-FARM-INF	08/17/2022	<0.10	<0.10	<0.10	<0.10	23	<0.20	<2.5	<0.10	<0.10	0.50	<0.10	NA	NA
3992-FARM-INF	11/11/2020	<0.10	<0.10	<0.10	<0.10	20	<0.20	<2.5	0.16 J	<0.10	0.32 J	<0.10	NA	NA
3992-FARM-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	14	<0.20	<2.5	0.12 J	<0.10	0.28 J	<0.10	NA	NA
3992-FARM-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	14	<0.20	<2.5	0.13 J	<0.10	0.24 J	<0.10	NA	NA
3992-FARM-INF	08/04/2021	<0.10	<0.10	<0.10	<0.10	14	<0.20	<2.5	0.11 J	<0.10	0.29 J	<0.10	NA	NA
3992-FARM-INF	10/28/2021	<0.10	<0.10	<0.10	<0.10	17	<0.20	<2.5	0.15 J	<0.10	0.23 J	<0.10	NA	NA
3992-FARM-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	12	<0.20	<2.5	0.11 J	<0.10	0.32 J	<0.10	NA	NA
3992-FARM-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	13	<0.20	<2.5	0.12 J	<0.10	0.24 J	<0.10	NA	NA

Table 5

HISTORICAL RESIDENTIAL POTABLE WELL DATA SUMMARY- VOC PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)	tert-amyl ethyl ether (µg/L)	tert-Butylbenzene (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**	**NL**	**NL**
3992-FARM-INF	08/17/2022	<0.10	<0.10	<0.10	<0.10	13	<0.20	<2.5	0.11 J	<0.10	0.27 J	<0.10	NA	NA
3994-FARM-INF	10/28/2020	<0.10	<0.10	<0.10	<0.10	7.4	<0.20	<2.5	<0.10	<0.10	0.13 J	<0.10	NA	NA
3994-FARM-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	5.9	<0.20	<2.5	<0.10	<0.10	0.14 J	<0.10	NA	NA
3994-FARM-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	7.4	<0.20	3.3 J	<0.10	<0.10	<0.10	<0.10	NA	NA
3994-FARM-INF	08/03/2021	<0.10	<0.10	<0.10	<0.10	5.3	<0.20	2.6 J	<0.10	<0.10	0.12 J	<0.10	NA	NA
3994-FARM-INF	11/02/2021	<0.10	<0.10	<0.10	<0.10	8.3	<0.20	<2.5	<0.10	<0.10	0.12 J	<0.10	NA	NA
3994-FARM-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	4.5	<0.20	<2.5	<0.10	<0.10	0.12 J	<0.10	NA	NA
3994-FARM-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	4.6	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3994-FARM-INF	09/29/2022	<0.10	<0.10	<0.10	<0.10	3.3	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	10/28/2020	<0.10	<0.10	<0.10	<0.10	1.6	<0.20	2.5 J	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	1.2	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	1.4	<0.20	3.4 J	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	08/03/2021	<0.10	<0.10	<0.10	<0.10	0.97	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	10/28/2021	<0.10	<0.10	<0.10	<0.10	1.3	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	0.88	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	0.91	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3996-FARM-INF	08/17/2022	<0.10	<0.10	<0.10	<0.10	1.2	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	10/28/2020	<0.10	<0.10	<0.10	<0.10	0.19 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	01/20/2021	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	05/05/2021	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	08/03/2021	<0.10	<0.10	<0.10	<0.10	0.12 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	10/28/2021	<0.10	<0.10	<0.10	<0.10	0.14 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	02/07/2022	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA

Table 5

HISTORICAL RESIDENTIAL POTABLE WELL DATA SUMMARY- VOC PARAMETERS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	tert-Butyl Alcohol (µg/L)	Diisopropyl ether (µg/L)	ethyl tert-butyl ether (µg/L)	tert-amyl methyl ether (µg/L)	Tetrachloroethene (ug/L)	tert-amyl ethyl ether (µg/L)	tert-Butylbenzene (µg/L)
GW Clean-up Standards*		**5**	**1,000**	**700**	**10,000**	**20**	**0.17**	**NL**	**NL**	**NL**	**NL**	**5**	**NL**	**NL**
3997-FARM-INF	05/03/2022	<0.10	<0.10	<0.10	<0.10	0.11 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA
3997-FARM-INF	08/17/2022	<0.10	<0.10	<0.10	<0.10	0.13 J	<0.20	<2.5	<0.10	<0.10	<0.10	<0.10	NA	NA

* Maryland Department of the Environment (MDE) Groundwater Clean-up Standards for Type I and II Aquifers (2018)
** Resident resampled on May 5, 2015 due to suspected mislabeling of samples

- = No Data Available
INF = Influent sample location
POU = Point-of-use sample location
<# = Less than the method detection limit of #
µg/L = Micrograms/Liter
MTBE = Methyl Tertiary Butyl Ether
NA = Not Analyzed
J = Detected between the Method Detection Limit (MDL) and the Reporting Limit (RL); therefore, result is an estimated value.
NT = Not Tabulated, historical laboratory analytical report available for specified date.
QB = The spike recovery was outside acceptance limits for the MS and/or MSD due to sample matrix interferences. The
BB = The method blank result was at or above the method reporting limit (MRL), therefore sample results may be biased
NL = No Limit (screening)

Table 6

MONITORING WELL CONSTRUCTION DETAILS

Carroll - Monrovia MD - Green Valley Citgo
11791 Fingerboard Road
Monrovia, MD

Monitoring Well	Well Permit #	Date Well Drilled	Date Well Installed	Well Diameter (inches)	TOC Elevation	Date of Last Survey	Total Depth of Well (from Ground Surface)	DTB of Steel Casing (feet)	TOS from Ground Surface	BOS from Ground Surface	Comments
MW-1	FR-94-5045	2/7/06	2/7/2006	2	99.19	2/27/2006	61.5	--	40	61.5	
MW-2	FR-94-5046	2/7/06	2/7/2006	2	99.47	2/27/2006	61.5	--	40	61.5	Well abandoned 12/21/17
MW-3	FR-94-5047	2/7/06	2/7/2006	2	99.16	2/27/2006	81.5	--	40	64	Drilled to 81.5 feet, backfilled and set at 64 feet; well abandoned 5/15/08
MW-4	FR-94-5048	2/7/06	2/7/2006	2	97.84	2/27/2006	61.5	--	40	61.5	
MW-5	FR-95-0982	5/12/08	2/23/2009	4	99.60	3/18/2009	70	14	40	70	
MW-6	FR-95-0983	5/12/08	2/23/2009	4	98.09	3/18/2009	59.5	14	40	59.5	boring caved to 59.5 feet; well abandoned 12/20/17
MW-7	FR-95-0984	5/12/08	2/24/2009	4	97.66	3/18/2009	80	19.5	53	80	
MW-8	FR-95-0985	5/12/08	2/23/2009	4	97.93	3/18/2009	70	15	45	70	Well abandoned 12/20/17
MW-9	FR-95-1216	2/26/09	3/11/2009	4	88.48	3/18/2009	78	10	48	78	Well abandoned 12/20/17
MW-10	FR-95-1217	2/26/09	3/11/2009	4	91.64	3/18/2009	80	10	40	80	Well abandoned 12/20/17
MW-11	FR-95-1219	2/27/09	3/11/2009	4	94.28	3/18/2009	77	10	47	77	Well abandoned 12/20/17
MW-12	FR-95-1218	3/2/09	3/12/2009	4	95.33	3/18/2009	84	10	44	82	Well abandoned 12/20/17
MW-13	FR-95-1215	3/2/09	3/12/2009	4	98.11	3/18/2009	84	10	49	84	
MW-14S	FR-95-1599	7/20/10	7/22/2010	4	91.21	7/22/2010	100	11.0	40	100	Well abandoned 12/20/17
MW-14D	FR-95-1418	9/24/09	7/22/2010	4	92.07	7/22/2010	221	10.5	201	221	
MW-15D	FR-95-1419	9/28/09	7/19/2010	4	97.67	7/22/2010	133.5	10	45.5	133.5	Well abandoned 12/20/17
MW-16	FR-95-1420	9/25/09	7/20/2010	4	89.78	7/22/2010	121	9.75	35.5	121	Well abandoned 12/20/17
MW-17	FR-95-1421	9/25/09	7/20/2010	4	92.84	7/22/2010	121	10.5	35	121	
MW-18S	FR-95-1674	11/17/10	11/17/2010	2	98.29	1/4/2011	70	--	45	70	MW-18S and MW-18D nested in one borehole; MW-18S abandoned on 11/10/15
MW-18D			11/18/2010	2	98.31	1/4/2011	130	--	120	130	
MW-18S-R	FR-95-2578	1/27/15	1/27/2015	4	97.72	1/27/2015	70	--	25	70	
VE-1	FR-95-1673	11/19/10	11/17/2010	4	98.40	1/4/2011	25	--	5	25	Abandoned 12/21/17
IW-1S	FR-95-1672	11/18/10	11/18/2010	0.60	98.52	1/4/2011	67	--	63	67	IW-1S and IW-1D nested in one borehole - stainless steel screen and casing; abandoned 12/21/17
IW-1D			11/19/2010	0.60	98.60	1/4/2011	73	--	69	73	
IW-2S	FR-95-1671	11/18/10	11/18/2010	0.60	98.63	1/4/2011	91	--	87	91	IW-2S and IW-2D nested in one borehole - stainless steel screen and casing; abandoned 12/21/17
IW-2D			11/19/2010	0.60	98.71	1/4/2011	103	--	99	103	
IW-3S	FR-95-1670	11/18/10	11/18/2010	0.60	98.51	1/4/2011	127	--	123	127	IW-3S and IW-3D nested in one borehole - stainless steel screen and casing; abandoned 12/21/17
IW-3D			11/19/2010	0.60	98.62	1/4/2011	134	--	130	134	
IW-4	FR-95-2019	5/30/12	5/30/12	0.75	NA	NA	92	--	85	89	Abandoned 12/21/17

BOS =Bottom of screen
NA = Not Available
TOS =Top of screen
TOC =Top of casing
U =Unknown

APPENDIX A

Historical Activities Summary

HISTORICAL ACTIVITY SUMMARY (*key / relevant dates*):

1990 – 2000:	The facility was operated by Timbercrest LP.
2000:	Underground storage tanks (USTs) were registered to Carroll Independent Fuel Company (Carroll).
June 13, 2001:	Three soil borings (SB-1AR, SB-2AR and SB-3) were advanced onsite and soil samples were collected by ATC Associates (ATC) as part of a Phase II Environmental Assessment.
July 24, 2001:	ATC completed a *Phase II Environmental Assessment* report.
January 28, 2005:	The Maryland Department of the Environment (MDE) Oil Control Program (OCP) conducted a compliance inspection, during which elevated levels of petroleum vapors were detected in the vicinity of the tank field, around tank top components, and in the tank field monitoring wells.
June 1, 2005:	MDE correspondence required vapor leak testing, containment sump and catchment basin testing, the installation of groundwater monitoring wells to comply with High-Risk Groundwater Use Area (HRGUA) Regulations, and the submittal of a *Subsurface Investigation Work Plan* to assess the vertical and lateral extent of any contamination of soil and/or groundwater. OCP Case #2005-0834-FR was assigned to the site.
July 8, 2005:	A *Work Plan – Subsurface Investigation and Emergency Regulation Compliance* was submitted to the MDE by Environmental Alliance (Alliance), proposing a soil boring event, installation of four monitoring wells, groundwater sampling, slug tests, and a sensitive receptor search.
August 18, 2005:	The MDE approved the *Work Plan*, with modifications, and required a drinking water well survey within a half-mile radius of the site be conducted.
September 14-15, 2005:	Ten soil borings (GP-1 through GP-10) were advanced.
February 6-7, 2006:	Four bedrock monitoring wells (MW-1 through MW-4) were installed.
March 28, 2006:	Methyl-tertiary butyl ether (MTBE) was detected at a concentration of 14 micrograms per liter (µg/L) in a blended influent sample collected from two onsite drinking water wells supplying the shopping center, Green Valley Plaza (GVP), which house the gas station.
April 2006:	Mr. Arshad Ranjha, doing business as Saaba Corporation, registered as the new UST owner.
May 24, 2006:	An *Assessment for the Emergency Regulations Compliance Report* was submitted to the MDE, detailing the soil boring event, the monitoring well installation, groundwater sampling, sampling of the onsite potable wells, and a sensitive receptor survey.
July 7, 2006:	The MDE responded to the *Assessment Report,* and required semi-annual sampling of the monitoring wells, the tank field wells, and the Site's supply wells, and submittal of boring logs for the onsite drinking water supply wells and the bedrock monitoring wells.
September 19, 2006:	MTBE was detected in a blended influent sample from the GVP's supply wells at a concentration of 42 µg/L.
November 17, 2006:	A *Semi-Annual Sampling Report* was submitted to the MDE detailing the results of groundwater sampling and the potable well sampling, and the intention to install a point of entry treatment (POET) system on GVP's water supply.

HISTORICAL ACTIVITY SUMMARY (Continued):

January 22, 2007:	The MDE issued a *Request for Interim Corrective Action Plan* (ICAP) *and Supplemental Investigation*, requiring the submittal of an ICAP to reduce vapor concentrations in the tank field, including a soil-vapor extraction (SVE) test on the tank field and monitoring well MW-3, an investigation of surface drains, and increased frequency of monitoring well and tank field well sampling from semi-annually to quarterly. The submittal of a *Site Conceptual Model* (SCM) and a supplemental *Work Plan* to further develop the SCM were also required. Quarterly sampling of GVP's and the adjacent Green Valley Shopping Center's (GVSC's) potable wells, initial sampling of several private offsite potable wells, and a detailed drinking water well survey within a half-mile radius of the site was required.
March 23, 2007:	An extension request for the submittal of the ICAP was submitted to the MDE, noting that there was more than one potentially responsible party at the Site.
April 5, 2007:	MDE correspondence acknowledged that more than one potentially responsible party existed at the Site.
April 5, 2007:	The MDE issued *Notice of Violation (NOV) NV-2007-069* to all potentially responsible parties for failure to meet the requirements of the January 22, 2007 directive letter within the specified deadlines. The MDE also sent correspondence regarding the case to the Frederick County Health Department (FCHD).
April 5-6, 2007:	An initial round of samples was collected from select offsite residential potable wells.
April 11, 2007:	Alliance met with the MDE's Water Supply Division to discuss installing a POET system on GVP's water supply.
April 12, 2007:	Email correspondence to MDE proposed sampling of additional select residential potable wells. The proposal was approved.
April 19, 2007:	Email correspondence to MDE proposed sampling of additional select residential potable wells. The proposal was approved.
April 25, 2007:	An ICAP was submitted to the MDE proposing SVE feasibility testing.
April 25, 2007:	A *Sampling Results and Work Plan* was submitted to the MDE detailing the results of sampling of offsite residential potable wells, the GVP supply wells and the GVSC supply wells, and included plans for future sampling.
April 30, 2007:	A *Drinking Water Well Survey* detailing the results of a search for potable wells within a half-mile radius of the site was submitted to the MDE.
April 30, 2007:	Granular activated carbon (GAC) POET systems were installed at two residences (3996 and 3994 Farm Lane) where MTBE was detected above the MDE's action level of 20 µg/L.
May 7, 2007:	The MDE approved the ICAP, with modifications, and required monthly sampling of certain residential potable wells. Alliance submitted *Site Conceptual Model and Supplemental Work Plan* to the MDE. A POET system was installed at 3990 Farm Lane.
May 11, 2007:	A POET system was installed at 3923 Rosewood Road.
May 17, 2007:	A *Surface Drain Evaluation* was submitted to the MDE.
May 22, 2007:	*Modifications to the Work Plan and the ICAP* was submitted to the MDE via email.
May 23, 2007:	A POET system was installed at 3992 Farm Lane.
May 31 – June 1, 2007:	Soil vapor monitoring points SV-1, SV-2 and SV-3 were installed around the tank field in preparation for SVE testing. Soil boring SB-1 was also advanced.
June 9, 2007:	A POET system was installed at 3997 Farm Lane.

HISTORICAL ACTIVITY SUMMARY (Continued):

June 21-22, 2007:	SVE feasibility testing was performed onsite.
June 27, 2007:	The MDE approved the *Supplemental Work Plan.*
July 27, 2007:	The MDE sent *Request to Sample Drinking Water Supply Well* notices to seven residences surrounding the Site.
August 8, 2007:	The MDE issued the directive *Off-Site Domestic Well Sampling Frequencies* requiring monthly sampling of 25 residences with potable wells and the submission of *Monthly Status Reports*, and quarterly sampling of 14 residences with potable wells and the submission of *Quarterly Drinking Water Supply Well Sampling Reports*.
October 15, 2007:	A *Potable Well Sampling Report* was submitted to the MDE. A *Quarterly Sampling Report* was also submitted, and included details of the SVE testing.
March 27, 2008:	The MDE issued *Modifications to Off-Site Domestic Well Sampling Frequencies and Request for Site Status*, reducing the reporting frequency for all data and the sampling frequency of certain potable wells to quarterly, but still required monthly sampling of wells outfitted with POET systems. The MDE requested an update on the proposed installation of a POET system on the GVSC supply wells, and the installation of five monitoring wells required in the April 5, 2007 NOV.
May 6, 2008:	A *Supplemental Work Plan Addendum* was submitted to the MDE proposing changes to the construction and installation of monitoring wells.
May 12-15 2008:	Four shallow groundwater monitoring wells (MW-5 through MW-8) were installed. The monitoring wells were left as open boreholes in the water-bearing zone. Monitoring well MW-3 was abandoned in anticipation of upcoming UST removal activities.
May 28, 2008:	The MDE approved the *Supplemental Work Plan Addendum.*
June 2008:	Down-hole geophysical testing of monitoring wells MW-6, MW-7 and MW-8, and drinking water wells FR-88-1356 and FR-94-1233 was conducted.
June 20, 2008:	A *Response to Directive* was submitted to the MDE, proposing the installation of four monitoring wells rather than five.
July 21-25, 2008:	One 2,000-gallon diesel UST and three 10,000-gallon gasoline USTs were removed from the Site. MDE was onsite to observe UST removal activities. Over 1,100 tons of soil, approximately 523 tons were petroleum-impacted, were removed from the Site. Soil vapor point SV-3 and tank field wells TF-1 and TF-2 were destroyed during UST removal activities. Site surface water discharge was reconfigured during Site upgrade activities.
August 2008:	A new UST system, consisting of two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST and one 4,000-gallon diesel UST, was installed at the Site. SVE piping was installed, connected to the tank field monitoring wells.
August 2008:	Water treatment permit was approved for modifications to the GVP supply well.
August 22, 2008:	A *UST System Closure Report* was submitted to the MDE.
September 2008:	A POET system was installed on the GVP water supply.
September 16, 2008:	A *Hydrogeologic Investigation Update Report and Work Plan* was submitted to the MDE, and included results of the down-hole geophysical well testing. The Work Plan proposed the installation of monitoring wells within the open boreholes of monitoring wells MW-5 through MW-8, installation of additional shallow monitoring wells, additional SVE testing, modifications to the potable well sampling plan, and preparation of an updated SCM.

HISTORICAL ACTIVITY SUMMARY (Continued):

December 12, 2008:	The MDE approved the *Work Plan* with modifications. The MDE did not approve the installation of new shallow monitoring wells, but requested the evaluation of need for deep monitoring wells near the tank field and offsite to the south and southeast; frequency of sampling POET systems at three residential addresses was increased to semi-monthly, frequency of the other three residential POET systems remained monthly; frequency of sampling at certain residences with potable wells was changed to quarterly, and others were changed to semi-annually. The MDE sent letters to area residents to inform them of the sampling frequency change.
December 16, 2008:	The need for installation of shallow monitoring wells in order to better place deep monitoring wells was verbally discussed with Jim Richmond of MDE.
December 17, 2008:	Susan Bull of MDE approved, via email, the installation of shallow monitoring wells if the data from them was needed in order to place deep monitoring wells.
December 30, 2008:	A *Response to Directive* was sent to the MDE.
January 16, 2009:	SVE feasibility testing was conducted.
February 3, 2009:	The MDE issued *Work Plan Clarification,* approving the installation of shallow wells in order to better place deep monitoring wells, and clarified the frequency of monitoring of the GVP and CVSC supply wells and residential potable wells.
February 2009:	Permanent screened monitoring wells were constructed in the open boreholes of monitoring wells MW-5 through MW-8.
February 27, 2009:	Alliance submitted *Soil Vapor Extraction (SVE) Pilot Testing Results* to the MDE.
March 12, 2009:	Five shallow monitoring wells (MW-9 through MW-13) were installed.
May 20, 2009:	The MDE issued *Changes to Off-Site Sampling Frequency*, changing the frequency of sampling residential POET systems to quarterly, and restating the required frequency of sampling offsite residential potable wells. The MDE also sent letters to area residents to inform them of the sampling frequency changes.
June 5, 2009:	A *Hydrogeologic Investigation Update and Work Plan* was submitted to MDE, detailing recent monitoring well installation, groundwater and potable well sampling, and updating the SCM. The *Work Plan* proposed the installation and geophysical testing of one deep monitoring well, installation of five shallow monitoring wells to help monitoring pump testing, packer testing of the deep monitoring well, pump testing of monitoring well MW-10, installation of an injection well, and injection testing of that well.
August 21, 2009:	A meeting was conducted with representatives of Carroll, Alliance, and MDE to discuss monitoring well installation and aquifer testing activities proposed in the *Work Plan*. It was decided that additional investigation in the vicinity of the tank field was necessary, and that short-term and long-term aquifer testing would be completed on monitoring wells close to the tank field in order to determine hydraulic conductivity and determine if any of the selected wells could function as recovery wells.
August 26, 2009:	*Work Plan Update* was submitted to the MDE, proposing installation of two deep monitoring wells, installation of two shallow monitoring wells, down-hole geophysical testing, packer testing of deep monitoring well PMW-14D, a 72-hour pumping test on deep monitoring well PMW-15D, and 4-hour pumping tests on monitoring wells MW-10, MW-13, PMW-16, and PMW-17.
September 22, 2009:	The MDE approved the *Work Plan Update,* but required a brief report be submitted prior to packer testing, and a brief report be submitted prior to the short-term pumping tests.

HISTORICAL ACTIVITY SUMMARY (Continued):

September 21–25, 2009: Deep monitoring wells MW-14D and MW-15D and shallow monitoring wells MW-16 and MW-17 were installed. The monitoring wells were left as open boreholes.

October 8, 2009: Alliance submitted *Response to September 22, 2009 Directive*, and included the required details of the planned short-term pumping tests.

October 19, 2009: Pumping tests were performed onsite, including a step-drawdown test and subsequent 72-hour pumping test on monitoring well MW-15D.

November 2, 2009: Geophysical testing of monitoring wells MW-14D, MW-16 and MW-17 was performed.

November 4, 2009: *Packer Testing Work Plan* was submitted to the MDE.

November 5-6, 2009: Packer testing was completed on monitoring well MW-14D.

March 15, 2010: Alliance submitted *Update Report and Work Plan* to the MDE detailing monitoring well installation, step testing, pump testing, geophysical well testing and packer testing. The *Work Plan* proposed the installation of 2-inch wells within monitoring well MW-14D, conversion of monitoring wells MW-15D, MW-16 and MW-17 to permanent screened wells, and the submittal of a *Corrective Action Plan* (CAP).

June 17, 2010: MDE issued *Request for Corrective Action Plan,* requiring the submittal of a CAP by August 6, 2010. The MDE also required that monitoring well MW-14D be finished as a 4-inch well, and a new 4-inch well, MW-14S be installed adjacent to it; and approved the completion of monitoring wells MW-15D, MW-16, and MW-17 as permanent screened wells, continued quarterly groundwater sampling, the initiation of quarterly sampling of the GVP POET system, continued quarterly sampling of residential POET systems, continued quarterly sampling of 14 residential potable wells, continued semi-annual sampling of 8 residential potable wells.

July 9, 2010: Carroll submitted a response to the MDE's request for a CAP, requesting an extension of the deadline for the submittal of a CAP to October 31, 2010.

July 19-21, 2010: Monitoring well MW-14S was installed onsite. Monitoring wells MW-15D, MW-16, and MW-17 were converted to permanent screened wells.

August 9, 2010: The MDE approved the extension of the deadline for CAP submittal.

August 10, 2010: A meeting was conducted between GES, Carroll, and the MDE.

September 2010: The case was transferred from Alliance to GES.

September 9, 2010: GES submitted *In Situ Chemical Oxidation (ISCO) Pilot Test Work Plan* to the MDE, proposing the installation of three nested injection wells, a nested observation well, and a vapor extraction well; and the injection of hydrogen peroxide and ozone at three subsurface intervals during a two-day pilot test.

October 13, 2010: A *Proposed Groundwater and Potable Well Sampling Program* was submitted to the MDE, proposing low-flow sampling methods and the collection of field measurements to replace the current purge and sample method for groundwater sampling; and the removal of Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO) from the list of parameters analyzed for all monitoring and non-transient, non-community supply wells. All POET system sampling, non-transient, non-community supply well sampling and residential potable well sampling was to remain on the schedule previously followed.

November 16-19, 2010: Nested monitoring wells MW-18S and MW-18D, vapor extraction well VE-1 and injection wells IW-1S/D, IW-2S/D and IW-3S/D were installed onsite.

HISTORICAL ACTIVITY SUMMARY (Continued):

November 18, 2010:	The MDE approved the *ISCO Pilot Test Work Plan,* with slight modifications, and the use of low-flow sampling techniques at the Site. The MDE approved the elimination of TPH-DRO and TPH-Gasoline Range Organics (GRO) from analysis of samples collected from the GVP POET system, the GVP supply wells, and the GVSC supply wells. The MDE stated that the request to eliminate TPH-DRO from the analysis of groundwater would be considered pending a review of low-flow sampling data and pilot testing activities.
November 30, 2010:	ISCO pilot testing was conducted onsite.
December 1, 2010:	Carroll informed the MDE of the results of the pilot testing via email, and included a proposed plan to redevelop the injection wells and introduce air to see if they could be used for further injection testing. Carroll also requested to modify the post ISCO pilot test groundwater sampling plan proposed in the *ISCO Pilot Test Work Plan.* Monitoring wells sampled prior to the pilot testing (with the exception of MW-18S and MW-18D) would be omitted from additional groundwater sampling in December 2010. The MDE approved both proposals via email.
December 8, 2010:	Injection wells IW-1S/D, IW-2S/D and IW-3S/D were re-developed.
December 15, 2010:	Slug testing was conducted on monitoring wells MW-18S and MW-18D.
January 4, 2011:	Monitoring wells MW-18S and MW-18D, vapor extraction well VE-1 and injection wells IW-1S/D, IW-2S/D and IW-3S/D were surveyed into the existing well network.
March 15, 2011:	A CAP was submitted to the MDE proposing the installation of an ISCO remediation system, and an eight-week pilot program.
June 1, 2011:	The MDE issued *Extended Pilot Testing Approval* in response to the CAP, approving the ISCO pilot program, and requiring expanded groundwater monitoring during the pilot program.
June 3, 2011:	Carroll requested clarifications of two points in the *Extended Pilot Testing Approval* via email.
June 6, 2011:	The MDE responded via email to Carroll's questions, and issued an updated *Site Management Schedule*, requiring the submission of a *CAP Implementation Plan* by July 1, 2011.
July 1, 2011:	A *CAP Implementation Plan* was submitted to the MDE.
August 28, 2011:	The MDE approved the *CAP Implementation Plan* and required an *Extended ISCO Pilot Testing Reports* be submitted during operation of the system and after completion of the pilot test period.
September 14, 2011:	The ISCO system was activated and GES began groundwater and POET System monitoring as per the schedule outlined in the MDE approved *CAP Implementation Plan*.
October 14, 2011:	An *Extended ISCO Pilot Testing – Week 3 Operation Report* was submitted to the MDE.
November 11, 2011:	ISCO system operation stopped, completing the 8 week ISCO Pilot Test.
November 18, 2011:	An *Extended ISCO Pilot Testing – Week 7 Operation Report* was submitted to the MDE.
December 19, 2011:	An *Extended ISCO Pilot Testing – Comprehensive Summary Report* was submitted to the MDE.
February 10, 2012:	GES received from the MDE a *Corrective Action Plan (CAP) Approval* letter.
February 20, 2012:	The ISCO system was activated and GES began groundwater and POET System monitoring as per the schedule outlined in the MDE *Corrective Action Plan (CAP) Approval* letter and subsequent correspondence.

HISTORICAL ACTIVITY SUMMARY (Continued):

April 2, 2012:	An *ISCO Injection Well Installation Work Plan* was submitted to the MDE.
May 5, 2012:	An *ISCO System Operation Report* was submitted to the MDE.
May 21-30, 2012:	Completion of a rock coring and hydraulic pressure testing investigation and the construction of injection well IW-4.
May 31-June 5, 2012:	Injection well IW-4 trenching, system connections, development and testing were completed, followed by the well being added to the injection well network for ISCO system operation.
June 25, 2012:	An *ISCO System Operation Report* was submitted to the MDE.
July 31, 2012:	The MDE requested that the ISCO system be shut down at the site pending further groundwater sampling.
August 1, 2012:	The ISCO system was deactivated.
August 1, 2012:	GES received from the MDE a *Modification to the Corrective Action Plan* letter.
August 3, 2012:	GES sent a letter to the MDE in response to the *Modification to the Corrective Action Plan* letter received.
August 9-23 and September 4, 2012:	GES emailed laboratory analytical results to the MDE that included hexavalent and chromium data.
August 31, 2012:	Monitoring well slug testing conducted at select monitoring wells.
September 12, 2012:	GES received from the MDE an email requesting additional information regarding lead analysis.
September 18, 2012:	GES received from the MDE an email regarding remediation system equipment removal.
September 21, 2012:	Carroll sent and email to the MDE regarding additional monitoring and sampling to be conducted during the 4th quarter sampling event and the timing of the event.
September 27, 2012:	The ISCO system trailer was removed from the site.
September 28, 2012:	An *ISCO System Comprehensive Summary Report and Update to the Conceptual Site Model* and *Supplemental Chromium and Lead Investigation Summary* were submitted to the MDE.
November 21, 2012:	GES submitted an *October 2012 Sampling Data Transmittal Letter* to the MDE.
December 1, 2012:	The FCHD and the MDE's contractor sampled the drinking water supply at 3833 Greenridge Drive.
December 20, 2012:	The MDE sent a letter to Mr. and Mrs. Gray in regards to the additional investigation of 11712 Serene Court.
December 21, 2012:	The MDE sent a letter to Mr. Schlessinger in regards to the sampling results for 3833 Greenridge Drive.
March 1, 2013:	GES submitted a *January 2013 Sampling Data Transmittal Letter* to the MDE.
March 14, 2013:	GES submitted an attachment to the January 2013 Sampling Data Transmittal Letter to the MDE.
April 19, 2013:	The MDE sent a letter to Mr. and Mrs. Gray in regards to the additional investigation of 11712 Serene Court.
May 22, 2013:	GES submitted a *Request to Revise the Monitoring Well Sampling Plan.*
May 29, 2013:	GES submitted an *April 2013 Sampling Data Transmittal Letter* to the MDE.
June 17, 2013:	GES submitted a *May 2013 Sampling Data Transmittal Letter* to the MDE.
October 18, 2013:	GES received a response from the MDE regarding the *Request to Revise Sampling Plan*. The MDE denied the request to eliminate TPH-DRO from the monitoring well sampling program. The MDE has requested an additional supplemental sampling event during the fourth quarter of 2013 and a *Revised CAP* by January 31, 2014.
November 15, 2013:	GES submitted an *October 2013 Sampling Data Transmittal Letter* to the MDE.

HISTORICAL ACTIVITY SUMMARY (Continued):

December 5, 2013:	A conference call with the MDE to discuss metals analytical results from select wells collected during the fourth quarter 2013.
December 18, 2013:	MW-18S and potable well GVP-FR815955 were resampled for metals, including chromium and lead, as requested by the MDE.
January 31, 2014:	GES submitted a *Revised CAP* to the MDE.
February 18, 2014:	Based on a correspondence with the MDE, well FR-73-1687 may have been misidentified, and the actual well identification is FR-73-7687.
May 2014:	The MDE issued a *Report of Results for Lead and Hexavalent Chromium Groundwater Investigation*.
September 16, 2014:	The property owner of 3829 Greenridge Drive requested (via telephone) GES to discontinue all future sampling of their property. A confirmation letter of this request was sent to the resident on September 26, 2014.
October 3, 2014:	An approval response to the January 31, 2014 *Revised Corrective Action Plan (CAP)* was received from the MDE. The routine monitoring and potable well sampling program was revised.
October 7, 2014:	CIFC issued a notice of dispute to the MDE regarding the requirement for additional metals sampling as outlined in the MDE approval of the Revised CAP.
October 27, 2014:	GES submitted a *Monitoring Well MW-18S Replacement Work Plan*.
November 7, 2014:	The MDE responded to the dispute regarding metals sampling, reducing the number of wells required for metals sampling and requiring that 2 sampling events occur six months apart. The letter also acknowledged that the property owner of 3829 Greenridge Drive requested to discontinue sampling at the property.
November 12, 2014:	The MDE confirmed with the property owner of 3829 Greenridge Drive that they would no longer like to be sampled in the future.
December 12, 2014:	A response from the MDE to the October 27, 2014 *Monitoring Well MW-18S Replacement Work Plan* was received.
December 12, 2014:	The MDE issued a letter to the property owner of 3829 Greenridge Drive regarding the discontinuation of potable sampling.
January 14, 2015:	A *Request for MW-18S-R Report Submittal Deadline Extension* was submitted to the MDE.
January 27, 2015:	The replacement monitoring well for MW-18S was installed and identified as MW-18S-R.
February 10, 2015:	The MDE approved the extension request for the MW-18S-R report.
February 13, 2015:	The annual *Data Trends Analysis & Revised Monitoring Plan* was submitted with the *Fourth Quarter 2014 Monitoring Report.*
March 17, 2015:	The *MW-18S Replacement Well Installation Report* was submitted to the MDE.
May 12, 2015:	The *First Quarter 2015 Monitoring Report* was submitted to the MDE.
June 8, 2015:	GES follows up with the MDE on sampling reduction requests discussed in the *Fourth Quarter 2014 Monitoring Report with Data Trend Analysis and Revised Monitoring Plan – February 15, 2015*, the *MW-18S-Replacement Well Installation Report – March 17, 2015*, and the *First Quarter 2015 Monitoring Report – May, 15, 2015*. The MDE responds to GES follow-up correspondence indicating a response letter is being drafted.
July 14, 2015:	GES requests and is permitted from the MDE postponement of the third quarter sampling event until August 2015 while waiting on the MDE's letter responding to GES's sampling reduction requests.

HISTORICAL ACTIVITY SUMMARY (Continued):

July 30, 2015:	GES received MDE's response letter *Site Status and Modifications to Sampling Program – July 29, 2015*. GES was permitted to discontinue sampling several monitoring and potable wells.
August 4, 2015:	GES submitted correspondence *Response to Green Valley Citgo Letter – 07.29.15* regarding July 30, 2015 MDE letter requesting clarification.
August 11, 2015:	GES received MDE response to Aug. 4, 2015 GES correspondence.
August 14, 2015:	GES submitted *Second Quarter 2015 Monitoring Report* to the MDE, requesting MW-18S abandonment within the report.
October 6, 2015:	GES notifies the MDE of Michael Pensario's, owner of 3996 Farm Lane, potable sampling inquiry, and GES requests the MDE to confirm with Mr. Pensario that his well was removed from GES' sampling program.
October 21, 2015:	GES confirms receiving the MDE's notification (via phone call) of contact with Mr. Pensario, confirming his removal from GES's potable sampling program.
October 30, 2015:	GES received the MDE's *Approval for Monitoring Well Abandonment* letter, dated October 27, 2015, approving abandonment of well MW-18S.
November 10, 2015:	GES abandoned monitoring well MW-18S per the MDE's requirements stated in their *Approval for Monitoring Well Abandonment* letter.
November 13, 2015:	GES submitted *Third Quarter 2015 Monitoring Report* to the MDE.
December 29, 2015:	GES submitted *Completion of MW-18S Well Abandonment*, dated December 30, 2015, letter to the MDE.
February 12, 2016:	GES submitted *Fourth Quarter 2015 Monitoring Report* to the MDE with *Annual Monitored Natural Attenuation (MNA) Evaluation*. GES also requested, in this correspondence, reductions of specific monitoring points and sampling frequency for select monitoring and potable wells for the case.
May 13, 2016:	GES submitted *First Quarter 2016 Monitoring Report* to the MDE.
June 23, 2016:	The MDE confirms the Case Status Meeting with GES scheduled for August 9, 2016.
August 9, 2016:	GES met with the MDE at the MDE Headquarters in Baltimore to discuss future sampling reduction and monitoring well abandonment requests and required documents for the MDE to consider requests.
August 11, 2016:	GES submitted *Second Quarter 2016 Monitoring Report* to the MDE.
September 9, 2016:	The MDE sent a *Request for Potable Well Sampling – September 9, 2016* to 3991 Farm Lane.
October 21, 2016:	GES submitted *Request for Monitoring Reduction* letter and the *Third Quarter 2016 Monitoring Report* to the MDE.
February 1, 2017:	The MDE informed CIFC that the Department was working on a response to the *Request for Monitoring Reduction* letter from GES and to supplement the response, the MDE requested individual time-series data tables for specific private residential properties, including the EPA Method 524.2 analytical results. GES confirmed the MDE's request.
February 15, 2017:	GES submitted the *Fourth Quarter 2016 Monitoring Report* and *2016 Annual Remedial Evaluation*.
April 25, 2017:	GES submits individual time-series data tables with EPA Method 524.2 analytical results, including First Quarter 2017 results, to the MDE.
May 12, 2017:	GES submitted the *First Quarter 2017 Monitoring Report* to the MDE.
August 11, 2017:	GES submitted the *Second Quarter 2017 Monitoring Report* to the MDE.
October 17, 2017:	GES received MDE's response letter *Site Status and Modifications to Sampling Program – October 17, 2017*.

HISTORICAL ACTIVITY SUMMARY (Continued):

November 14, 2017:	GES submitted the *Third Quarter 2017 Monitoring Report* to the MDE.
December 20-21, 2017:	GES abandoned MW-2, MW-6, MW-8, MW-10, MW-11, MW-12, MW-14S, MW-15D, MW16, IW-1S, IW-1D, IW-2S, IW-2D, IW-3S, IW-3D, IW-14, VE-1, SV-1 and SV-2 as approved in MDE correspondence dated October 17, 2017.
February 15, 2018:	GES submitted the *Fourth Quarter 2017 Monitoring Report* to the MDE.
May 15, 2018:	GES submitted the *First Quarter 2018 Monitoring Report* to the MDE.
May 24, 2018:	GES received MDE's response letter *POET Treatment System Discontinuation Approval – May 24, 2018.*
May 25, 2018:	GES submitted *Addendum - First Quarter 2018 Monitoring Report*
July 13, 2018	The POET systems from 3997 Farm Lane and 3923 Rosewood Road were removed.
August 15, 2018:	GES submitted the *Second Quarter 2018 Monitoring Report* to the MDE.
September 17, 2018:	GES received MDE's response letter *Site Status and Modifications to Sampling Program, September 11, 2018.*
November 14, 2018:	GES submitted the *Third Quarter 2018 Monitoring Report* to the MDE.
February 15, 2019:	GES submitted the *Fourth Quarter 2018 Monitoring Report* and *2018 Annual Remedial Evaluation Report* to the MDE under separate cover.
April 16, 2019:	GES submitted the *Request for Release from POET System Maintenance Responsibility 3996 Farm Lane, Monrovia* to the MDE.
April 29, 2019:	GES submitted the *First Quarter 2019 Monitoring Report* to the MDE.
May 1, 2019:	GES received MDE's *Report of Observations* from site visit this day.
May 10, 2019:	GES received MDE's response letter *Poet System Maintenance Responsibility* dated May 7, 2019.
August 5, 2019	GES submitted the *Second Quarter 2019 Monitoring Report* to the MDE.
November 1, 2019	GES submitted the *Third Quarter 2019 Monitoring Report* to the MDE.
December 10, 2019	GES received MDE's *Monitored Natural Attenuation Sampling Discontinuation Approval* date December 6, 2019.
February 13, 2020	GES submitted the *Fourth Quarter 2019 Monitoring Report* to the MDE.
April 30, 2020	GES submitted the *First Quarter 2020 Monitoring Report* to the MDE.
August 14, 2020	GES submitted the *Second Quarter 2020 Monitoring Report* to the MDE.
November 13, 2020	GES submitted the *Third Quarter 2020 Monitoring Report* to the MDE.
February 12, 2021	GES submitted the *Fourth Quarter 2020 Monitoring Report* and the *Annual Remedial Evaluation - 2020* report to the MDE.
May 14, 2021	GES submitted the *First Quarter 2021 Monitoring Report* to the MDE.
August 13, 2021	GES submitted the *Second Quarter 2021 Monitoring Report* to the MDE.
November 10, 2021	GES submitted the *Third Quarter 2021 Monitoring Report* to the MDE.
February 15, 2022	GES submitted the *Fourth Quarter 2021 Monitoring Report* and the *Annual Remedial Evaluation - 2020* report to the MDE.
February 18, 2022	GES submitted *Notification Regarding Cessation of GVP Treatment System Diagnostic Sampling and Maintenance* to Timbercrest LP and MDE.
May 15, 2022	GES submitted the *First Quarter 2022 Monitoring Report* to the MDE.
August 5, 2022	GES submitted the *Second Quarter 2022 Monitoring Report* to the MDE.

APPENDIX B

Monitoring Well Sampling Data

GROUNDWATER SAMPLING/LIQUID LEVEL DATA SHEET

CLIENT/PROJECT: Carroll Fuel - Monrovia DATE: 8-16-2022

ADDRESS/SITE NUMBER: 11791 Fingerboard Road

GES PERSONNEL: Jeff Plummer WEATHER: Partly cloudy 70-84-

WELL	DTW	DTP	TDW	Well Dia.	P	B	S	Vol	DO	pH	Temp °C	ORP	NTU	Cond.	Time	Comments
MW-1	51.54	—														
4	59.11	—														
5	65.07	—														
7	66.02	—														
13	64.18	—														
14D	57.37	—														
17	61.67	—														
18D	60.03	—														
18SR	65.35	—														
TF-3	dry	—	14.35													
4	dry	—	14.02													
5	14.21	—	14.35													
6	13.44	—	13.60													
7	dry	—	12.16													
TF-8	11.47	—	11.62													

KEY: DTW = depth to water; DTP = depth to product; P = pump in well; B = bailer in well; S = sorbent sock in well; Vol = volume bailed (gallons)

Additional Comments:

Groundwater Sampling Data Collection Sheet

Well ID:	MW-7	Site ID:	Carroll Fuel
Initial DTW / Time:		Address:	11791 Fingerboard Rd. Monrovia Md.
Well Diameter:	4"	Sample Method (cicle one)	Sample Date: 8-16-22
Total Well Depth:		Low Flow	Sampling Tech(s): J. Plummer
Water Column Length:		Purge/sample	Weather Conditions: Partly cloudy
Pump Intake depth:		Grab/No Pruge	Air Temp = 70°

Data Collection: Low Flow

Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Comment
		____Unit	mS/cm Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
0920	66.02	Just prior to lowering any equipment into well								
0920	66.02	After lowering equipment into the well & before turning on the pump								
0920		Purge Start Time								
0925	66.04	18.40	1.015	7.91	6.09	172.6	300 ml/min		clear	
0930	66.04	18.22	1.014	7.86	6.05	172.8				
0935	66.05	17.96	1.012	7.73	6.07	173.7				
0940	66.05	17.72	1.014	7.46	6.07	179.1	✓	1½ gallons		
0945		Sample Collection Time								
		Purge Stop Time								

Data Collection: Purge and Sample / Grab Sampling

		If Applicable								
Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Method Of Sampling
		____Unit	_____Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
		Just prior to lowering any equipment into well								
	Sample Collection Time	Note: Unless otherwise stated, field parameters collected during purge and sample or grab sampling were collected from the well with a sonde before purging or sampling.								

General Comment & Type of Equipment Used (pumps/YSI meter/ect./caibration info):

4 cycles min 10 sec fill / 5 sec discharge ✓

Stabilization is achieved when three successive readings are within
- ± 0.3 °C for temperature,
- ± 0.1 for pH,
- ± 3% for specific conductivity,
- ± 10 for reduction-oxidation potential

Purge Volumes:

2-inch diameter well:
0.16 gal./ft x _____ (linear feet of water) = gallons of water
4-inch diameter well:
0.65 gal./ft x _____ (linear feet of water) = gallons of water

Groundwater Sampling Data Collection Sheet

Well ID:	MW-17	Site ID:	Carroll Fuel
Initial DTW / Time:		Address:	11791 Fingerboard Rd Monrovia Md.
Well Diameter:	4"	Sample Method (cicle one)	Sample Date: 8/16-22
Total Well Depth:		Low Flow	Sampling Tech(s): J-Plummer
Water Column Length:		Purge/sample	Weather Conditions: Partly Cloudy 72°
Pump Intake depth:		Grab/No Pruge	Air Temp =

Data Collection: Low Flow

Time	DTW	Temp ____Unit ± 0.3 °C	Conductivity ms/cm Unit ± 3%	D.O. ____Unit ± 10%	pH NA ± 0.1	ORP ____Unit ± 10	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Comment
1000	61.67	Just prior to lowering any equipment into well								
1005	61.65	After lowering equipment into the well & before turning on the pump								
1005	Purge Start Time									
1010	61.68	16.59	1.092	9.50	6.05	193.1	300 ml/min		clear	
1015	61.69	17.17	1.100	7.63	5.76	195.1				
1020	61.69	16.35	1.094	7.29	5.51	198.9				
1025	61.69	16.17	1.093	7.23	5.49	197.2				
1030	61.69	16.12	1.092	6.01	5.48	196.0				
1035	61.70	16.23	1.093	5.20	5.49	194.8				
1040	61.70	16.19	1.094	4.82	5.48	194.5				
1045	61.70	16.18	1.093	4.58	5.46	195.2				
1050	61.71	16.38	1.092	4.40	5.51	191.6	↓	3 1/2 gallons	↓	
1055	Sample Collection Time									
	Purge StopTime									

Data Collection: Purge and Sample / Grab Sampling

Time	DTW	If Applicable Temp ____Unit ± 0.3 °C	Conductivity ____Unit ± 3%	D.O. ____Unit ± 10%	pH NA ± 0.1	ORP ____Unit ± 10	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Method Of Sampling
		Just prior to lowering any equipment into well								
	Sample Collection Time	Note: Unless otherwise stated, field parameters collected during purge and sample or grab sampling were collected from the well with a sonde before purging or sampling.								

General Comment & Type of Equipment Used (pumps/YSI meter/ect./caibration info):

4 cycles/min 10 sec fill / 5 sec discharge.

Stabilization is achieved when three successive readings are within
- ± 0.3 °C for temperature,
- ± 0.1 for pH,
- ± 3% for specific conductivity,
- ± 10 for reduction-oxidation potential

Purge Volumes:
2-inch diameter well:
0.16 gal./ft x _____ (linear feet of water) = gallons of water
4-inch diameter well:
0.65 gal./ft x _____ (linear feet of water) = gallons of water

Groundwater Sampling Data Collection Sheet

Well ID:	MW-14D		Site ID:	Carroll	Sample Date: 8-16-22
Initial DTW / Time:			Address:	11791 Fingerboard Rd. Monrovia md.	
Well Diameter:	4"	Sample Method (cicle one)			
Total Well Depth:		Low Flow	Sampling Tech(s):	J. Plummer	
Water Column Length:		Purge/sample	Weather Conditions:	Partly cloudy	
Pump Intake depth:		Grab/No Pruge	Air Temp =	78°	

Data Collection: Low Flow

Time	DTW	Temp ____Unit ± 0.3 °C	Conductivity ms/cm Unit ± 3%	D.O. ____Unit ± 10%	pH NA ± 0.1	ORP ____Unit ± 10	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Comment
1105	57.37	Just prior to lowering any equipment into well								
1115	57.35	After lowering equipment into the well & before turning on the pump								
1115		Purge Start Time								
1120	57.92	20.33	0.369	4.94	6.65	179.5	200 ml-/min		clear	
1125	58.15	17.75	0.298	1.88	6.71	183.5				
1130	58.25	18.67	0.296	2.12	6.83	176.5				
1135	58.68	16.67	0.280	1.70	6.83	174.5				
1140	59.05	16.40	0.278	1.55	6.81	173.3				
1145	59.37	16.45	0.276	1.50	6.87	167.1				
1150	59.65	16.43	0.277	1.44	6.92	162.3		1 3/4 gallons		
1155	Sample Collection Time									
	Purge StopTime									

Data Collection: Purge and Sample / Grab Sampling

Time	DTW	If Applicable Temp ____Unit ± 0.3 °C	Conductivity ____Unit ± 3%	D.O. ____Unit ± 10%	pH NA ± 0.1	ORP ____Unit ± 10	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Method Of Sampling
		Just prior to lowering any equipment into well								
	Sample Collection Time	Note: Unless otherwise stated, field parameters collected during purge and sample or grab sampling were collected from the well with a sonde before purging or sampling.								

General Comment & Type of Equipment Used (pumps/YSI meter/ect./caibration info):

4 cycles/min

Stabilization is achieved when three successive readings are within
- ± 0.3 °C for temperature,
- ± 0.1 for pH,
- ± 3% for specific conductivity,
- ± 10 for reduction-oxidation potential

Purge Volumes:
- 2-inch diameter well:
- 0.16 gal./ft x _____ (linear feet of water) = gallons of water
- 4-inch diameter well:
- 0.65 gal./ft x _____ (linear feet of water) = gallons of water

Groundwater Sampling Data Collection Sheet

Well ID:	MW-180		Site ID:	Carroll	Sample Date: 8-16-22
Initial DTW / Time:			Address:	11791 Fingerboard Rd. Monrovia Md.	
Well Diameter:	2"	*Sample Method (cicle one)*			
Total Well Depth:		(Low Flow)	Sampling Tech(s):	J. Plummer	
Water Column Length:		Purge/sample	Weather Conditions:	Partly Cloudy	
Pump Intake depth:		Grab/No Pruge	Air Temp =	82°	

Data Collection: Low Flow

Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Comment
		____Unit	ms/cm Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
1220	60.03	Just prior to lowering any equipment into well								
1230	57.85	After lowering equipment into the well & before turning on the pump								
1230		Purge Start Time								
1235	62.30	18.00	3.194	0.91	7.57	-54.8	300 mL/min		clear	
1240	64.60	17.99	3.182	0.69	7.61	-89.0	↓		↓	
1245	66.60	17.75	3.782	0.65	7.67	-98.6				
1250	68.15	17.65	3.786	0.63	7.70	-107.7				
1255	70.30	17.73	3.784	0.63	7.73	-116.9	↓	2 gallons		
1300		Sample Collection Time								
		Purge StopTime								

Data Collection: Purge and Sample / Grab Sampling

		If Applicable								
Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Method Of Sampling
		____Unit	_____Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
		Just prior to lowering any equipment into well								
	Sample Collection Time	Note: Unless otherwise stated, field parameters collected during purge and sample or grab sampling were collected from the well with a sonde before purging or sampling.								

General Comment & Type of Equipment Used (pumps/YSI meter/ect./caibration info):

4 cycles min 10 sec fill / 5 sec discharge

Stabilization is achieved when three successive readings are within
- ± 0.3 °C for temperature,
- ± 0.1 for pH,
- ± 3% for specific conductivity,
- ± 10 for reduction-oxidation potential

Purge Volumes:

2-inch diameter well:
0.16 gal./ft x _____ (linear feet of water) = gallons of water
4-inch diameter well:
0.65 gal./ft x _____ (linear feet of water) = gallons of water

Groundwater Sampling Data Collection Sheet

Well ID:	MW-185R		Site ID:	Carroll Fuel	Sample Date: 8-16-22
Initial DTW / Time:			Address:	11791 Fingerboard Rd. Monrovia Md.	
Well Diameter:	4"	*Sample Method (cicle one)*			
Total Well Depth:		(Low Flow)	Sampling Tech(s):	Jeff Plummer	
Water Column Length:		Purge/sample	Weather Conditions:	Partly Cloudy	
Pump Intake depth:		Grab/No Pruge	Air Temp =	84°	

Data Collection: Low Flow

Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Comment
		____Unit	mS/cm Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
1310	65.35	Just prior to lowering any equipment into well								
1315	65.30	After lowering equipment into the well & before turning on the pump								
1315		Purge Start Time								
1320	65.47	20.15	1.840	3.67	5.98	100.0	300 ml./min		clear	
1325	65.50	18.37	1.476	3.08	5.56	124.8	↓		↓	
1330	65.50	18.31	1.371	3.23	5.39	138.9				
1335	65.50	18.25	1.324	3.32	5.31	147.7				
1340	65.50	18.29	1.303	3.39	5.28	154.2				
1345	65.50	18.00	1.285	3.48	5.23	159.9				
1350	65.50	17.79	1.265	3.54	5.18	165.8		23 Mgall.	✓	
1355	Sample Collection Time									
	Purge StopTime									

Data Collection: Purge and Sample / Grab Sampling

		If Applicable								
Time	DTW	Temp	Conductivity	D.O.	pH	ORP	Flow Rate	Cumulative Purge Volume	Appearance of Purge Water	Method Of Sampling
		____Unit	_____Unit	____Unit	NA	____Unit				
		± 0.3 °C	± 3%	± 10%	± 0.1	± 10				
		Just prior to lowering any equipment into well								
	Sample Collection Time	Note: Unless otherwise stated, field parameters collected during purge and sample or grab sampling were collected from the well with a sonde before purging or sampling								

General Comment & Type of Equipment Used (pumps/YSI meter/ect./caibration info):

4 cycles/min

Stabilization is achieved when three successive readings are within
- ± 0.3 °C for temperature,
- ± 0.1 for pH,
- ± 3% for specific conductivity,
- ± 10 for reduction-oxidation potential

Purge Volumes:
2-inch diameter well:
0.16 gal./ft x _____ (linear feet of water) = gallons of water
4-inch diameter well:
0.65 gal./ft x _____ (linear feet of water) = gallons of water

Client/Site: Carroll Monrovia

NAME: Jeff Plummer
DATE: 8-17-2022
COMPANY: GES

Potable Sampling Log

Address	Who granted access / Access letter Signed	Flush Location	Flush initiation time	Flush length (mins)	EFF (time)	MID (time)	INF / Non POET (time)	Totalizer Reading (gals)	Non POET Sample Location / General Notes
11791 Fingerboard GVR	Carroll Fuel	hose at spigot	0900	10			0910	1317000	POET still online.
3990 Farm	Ms. Bradley	basement dropsink	0930	10	0940	0945	0950	1698001	Confirmed POET online.
3923 Rose	Ms. Stevens	basement dropsink	1030	10			1040		Collected at dropsink.
3996 Farm	Mr. Ayala.	basement dropsink	1300	10	1310	1315	1320	1298964	Confirmed POET online.
3997 Farm	Ms. Szeluga	Kitchen Sink	1330	10			1340		Collected at Kitchen Sink.
3992 Farm	Mr. Podliska	basement dropsink	1400	10	1410	1415	1420	64156	Confirmed POET online.
									*Small drip coming from camlock gasket on influent of 3rd. GAC.
FINAL CHECK LIST:	Access Letters: [ ] DUPLICATE: [ ]		TRIP BLANK: [ ] TOTALIZER READINGS [ ]				NOTES:		

Client/Site: Carroll Monrovia

NAME: Jeff Plummer
DATE: 9-29-22
COMPANY: GES

Potable Sampling Log

Address	Who granted access / Access letter Signed	Flush Location	Flush initiation time	Flush length (mins)	EFF (time)	MID (time)	INF / Non POET (time)	Totalizer Reading (gals)	Non POET Sample Location / General Notes
3994 Farm	Mr. Jackson	basement dropsink	0830	10	0840	0845	0850	628757	Confirmed POET online.
FINAL CHECK LIST:	Access Letters: [ ] DUPLICATE: [ ]		TRIP BLANK: [ ] TOTALIZER READINGS [ ]				NOTES:		

APPENDIX C

Laboratory Reports and Chain of Custody Documentation
(See Files on CD)

Eurofins Lancaster
Laboratories ID Numbers:

410-94984-1
410-94986-1
410-99916-1

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-94984-1
Client Project/Site: Carroll Monrovia

For:
Groundwater & Environmental Services Inc
1350 Blair Drive
Suite H-2
Odenton, Maryland 21113

Attn: Peter Reichardt

Authorized for release by:
8/24/2022 12:48:18 AM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@et.eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
8/24/2022 12:48:18 AM

Table of Contents

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-94984-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-94984-1

Receipt
The samples were received on 8/18/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions
A trip blank was not submitted for analysis with this sample shipment; and was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 8260C_LL: The continuing calibration verification (CCV) associated with batch 410-288122 recovered outside acceptance criteria, low biased, for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Dichlorodifluoromethane, Hexachlorobutadiene, Naphthalene and t-Butyl alcohol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C_LL: The preservative used in the sample containers provided is not compatible with the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW-7 (410-94984-1), MW-17 (410-94984-2), MW-14D (410-94984-3), MW-18D (410-94984-4) and MW-18S-R (410-94984-5). The requested target analyte list includes Acrylonitrile , acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-7 — Lab Sample ID: 410-94984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.69		0.50	0.080	ug/L	1		8260C LL	Total/NA
Chloroform	0.17	J	0.50	0.090	ug/L	1		8260C LL	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 410-94984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	1.1		0.50	0.080	ug/L	1		8260C LL	Total/NA
Chloroform	0.35	J	0.50	0.090	ug/L	1		8260C LL	Total/NA
di-Isopropyl ether	0.22	J	0.50	0.10	ug/L	1		8260C LL	Total/NA

Client Sample ID: MW-14D — Lab Sample ID: 410-94984-3

No Detections.

Client Sample ID: MW-18D — Lab Sample ID: 410-94984-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	18		0.50	0.080	ug/L	1		8260C LL	Total/NA
di-Isopropyl ether	0.16	J	0.50	0.10	ug/L	1		8260C LL	Total/NA
t-Amyl methyl ether	0.30	J	0.50	0.20	ug/L	1		8260C LL	Total/NA

Client Sample ID: MW-18S-R — Lab Sample ID: 410-94984-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.19	J	0.50	0.090	ug/L	1		8260C LL	Total/NA
di-Isopropyl ether	0.56		0.50	0.10	ug/L	1		8260C LL	Total/NA
t-Amyl methyl ether	0.32	J	0.50	0.20	ug/L	1		8260C LL	Total/NA
t-Butyl alcohol	4.4	J cn	10	3.0	ug/L	1		8260C LL	Total/NA
Methyl tertiary butyl ether - DL	33		5.0	0.80	ug/L	10		8260C LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-7
Lab Sample ID: 410-94984-1
Date Collected: 08/16/22 09:45
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 17:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,2,3-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 17:31	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 17:31	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 17:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 17:31	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 17:31	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Methyl tertiary butyl ether	**0.69**		0.50	0.080	ug/L			08/21/22 17:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Chloroform	**0.17**	**J**	0.50	0.090	ug/L			08/21/22 17:31	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 17:31	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 17:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Dichlorodifluoromethane	ND	cn	0.50	0.10	ug/L			08/21/22 17:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Acrylonitrile	ND	cn	5.0	0.40	ug/L			08/21/22 17:31	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 17:31	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 17:31	1

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-7
Lab Sample ID: 410-94984-1
Date Collected: 08/16/22 09:45
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 17:31	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/21/22 17:31	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 17:31	1
Hexachlorobutadiene	ND	cn	0.50	0.080	ug/L			08/21/22 17:31	1
Naphthalene	ND	cn	0.50	0.080	ug/L			08/21/22 17:31	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 17:31	1
t-Amyl methyl ether	ND		0.50	0.20	ug/L			08/21/22 17:31	1
t-Butyl alcohol	ND	cn	10	3.0	ug/L			08/21/22 17:31	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:31	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*08/21/22 17:31*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/21/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/21/22 17:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 17:31*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-17
Lab Sample ID: 410-94984-2
Date Collected: 08/16/22 10:55
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 17:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,2,3-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 17:52	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 17:52	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 17:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 17:52	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 17:52	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Methyl tertiary butyl ether	**1.1**		0.50	0.080	ug/L			08/21/22 17:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Chloroform	**0.35**	**J**	0.50	0.090	ug/L			08/21/22 17:52	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 17:52	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 17:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Dichlorodifluoromethane	ND	cn	0.50	0.10	ug/L			08/21/22 17:52	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Acrylonitrile	ND	cn	5.0	0.40	ug/L			08/21/22 17:52	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 17:52	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 17:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 17:52	1

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-17
Lab Sample ID: 410-94984-2
Date Collected: 08/16/22 10:55
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 17:52	1
di-Isopropyl ether	**0.22**	**J**	0.50	0.10	ug/L			08/21/22 17:52	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 17:52	1
Hexachlorobutadiene	ND	cn	0.50	0.080	ug/L			08/21/22 17:52	1
Naphthalene	ND	cn	0.50	0.080	ug/L			08/21/22 17:52	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 17:52	1
t-Amyl methyl ether	ND		0.50	0.20	ug/L			08/21/22 17:52	1
t-Butyl alcohol	ND	cn	10	3.0	ug/L			08/21/22 17:52	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 17:52	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*08/21/22 17:52*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/21/22 17:52*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*08/21/22 17:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 17:52*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-14D
Lab Sample ID: 410-94984-3
Date Collected: 08/16/22 11:55
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 18:13	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,2,3-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:13	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 18:13	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:13	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 18:13	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 18:13	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Methyl tertiary butyl ether	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Chloroform	ND		0.50	0.090	ug/L			08/21/22 18:13	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 18:13	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 18:13	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Dichlorodifluoromethane	ND	cn	0.50	0.10	ug/L			08/21/22 18:13	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Acrylonitrile	ND	cn	5.0	0.40	ug/L			08/21/22 18:13	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 18:13	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:13	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 18:13	1

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-14D
Lab Sample ID: 410-94984-3
Date Collected: 08/16/22 11:55
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 18:13	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/21/22 18:13	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 18:13	1
Hexachlorobutadiene	ND	cn	0.50	0.080	ug/L			08/21/22 18:13	1
Naphthalene	ND	cn	0.50	0.080	ug/L			08/21/22 18:13	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:13	1
t-Amyl methyl ether	ND		0.50	0.20	ug/L			08/21/22 18:13	1
t-Butyl alcohol	ND	cn	10	3.0	ug/L			08/21/22 18:13	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:13	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*08/21/22 18:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/21/22 18:13*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*08/21/22 18:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/21/22 18:13*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-18D
Lab Sample ID: 410-94984-4
Date Collected: 08/16/22 13:00
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 18:34	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,2,3-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:34	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 18:34	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:34	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 18:34	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 18:34	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Methyl tertiary butyl ether	**18**		0.50	0.080	ug/L			08/21/22 18:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Chloroform	ND		0.50	0.090	ug/L			08/21/22 18:34	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 18:34	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 18:34	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Dichlorodifluoromethane	ND	cn	0.50	0.10	ug/L			08/21/22 18:34	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Acrylonitrile	ND	cn	5.0	0.40	ug/L			08/21/22 18:34	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 18:34	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:34	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 18:34	1

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-18D
Lab Sample ID: 410-94984-4
Date Collected: 08/16/22 13:00
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 18:34	1
di-Isopropyl ether	**0.16**	**J**	0.50	0.10	ug/L			08/21/22 18:34	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 18:34	1
Hexachlorobutadiene	ND	cn	0.50	0.080	ug/L			08/21/22 18:34	1
Naphthalene	ND	cn	0.50	0.080	ug/L			08/21/22 18:34	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:34	1
t-Amyl methyl ether	**0.30**	**J**	0.50	0.20	ug/L			08/21/22 18:34	1
t-Butyl alcohol	ND	cn	10	3.0	ug/L			08/21/22 18:34	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:34	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*08/21/22 18:34*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/21/22 18:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*08/21/22 18:34*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/21/22 18:34*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Client Sample ID: MW-18S-R
Lab Sample ID: 410-94984-5
Date Collected: 08/16/22 13:55
Matrix: Water
Date Received: 08/18/22 17:00

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 18:55	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,2,3-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:55	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 18:55	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.070	ug/L			08/21/22 18:55	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 18:55	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 18:55	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Chloroform	**0.19**	**J**	0.50	0.090	ug/L			08/21/22 18:55	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 18:55	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 18:55	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Dichlorodifluoromethane	ND	cn	0.50	0.10	ug/L			08/21/22 18:55	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Acrylonitrile	ND	cn	5.0	0.40	ug/L			08/21/22 18:55	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 18:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 18:55	1
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94984-1

Client Sample ID: MW-18S-R
Date Collected: 08/16/22 13:55
Date Received: 08/18/22 17:00

Lab Sample ID: 410-94984-5
Matrix: Water

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 18:55	1
di-Isopropyl ether	**0.56**		0.50	0.10	ug/L			08/21/22 18:55	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 18:55	1
Hexachlorobutadiene	ND	cn	0.50	0.080	ug/L			08/21/22 18:55	1
Naphthalene	ND	cn	0.50	0.080	ug/L			08/21/22 18:55	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 18:55	1
t-Amyl methyl ether	**0.32**	**J**	0.50	0.20	ug/L			08/21/22 18:55	1
t-Butyl alcohol	**4.4**	**J cn**	10	3.0	ug/L			08/21/22 18:55	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 18:55	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*08/21/22 18:55*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*08/21/22 18:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*08/21/22 18:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 18:55*	*1*

Method: 8260C LL - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	**33**		5.0	0.80	ug/L			08/23/22 14:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*08/23/22 14:47*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/23/22 14:47*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/23/22 14:47*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/23/22 14:47*	*10*

Surrogate Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94984-1

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-94984-1	MW-7	104	104	93	99
410-94984-2	MW-17	102	105	90	99
410-94984-3	MW-14D	104	105	92	100
410-94984-4	MW-18D	100	105	92	100
410-94984-5	MW-18S-R	102	105	91	99
410-94984-5 - DL	MW-18S-R	106	104	99	97
LCS 410-288122/4	Lab Control Sample	97	99	103	101
LCS 410-288625/4	Lab Control Sample	105	104	101	97
LCSD 410-288122/5	Lab Control Sample Dup	96	100	100	101
LCSD 410-288625/5	Lab Control Sample Dup	105	103	100	97
MB 410-288122/7	Method Blank	99	102	93	100
MB 410-288625/7	Method Blank	107	103	97	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C LL - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-288122/7
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/21/22 12:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Styrene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/21/22 12:12	1
Toluene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/21/22 12:12	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/21/22 12:12	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Methyl tertiary butyl ether	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Chloroform	ND		0.50	0.090	ug/L			08/21/22 12:12	1
Benzene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Bromomethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Chloromethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Chloroethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/21/22 12:12	1
Bromoform	ND		1.0	0.30	ug/L			08/21/22 12:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Acrylonitrile	ND		5.0	0.40	ug/L			08/21/22 12:12	1
Trichloroethene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/21/22 12:12	1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-288122/7
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Bromobenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Dibromomethane	ND		0.50	0.080	ug/L			08/21/22 12:12	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/21/22 12:12	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Hexachlorobutadiene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
Naphthalene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
N-Propylbenzene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/21/22 12:12	1
t-Amyl methyl ether	ND		0.50	0.20	ug/L			08/21/22 12:12	1
t-Butyl alcohol	ND		10	3.0	ug/L			08/21/22 12:12	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/21/22 12:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/21/22 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*08/21/22 12:12*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/21/22 12:12*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/21/22 12:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/21/22 12:12*	*1*

Lab Sample ID: LCS 410-288122/4
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.18		ug/L		104	71 - 134
cis-1,3-Dichloropropene	5.00	5.40		ug/L		108	67 - 121
trans-1,3-Dichloropropene	5.00	5.85		ug/L		117	61 - 129
Ethylbenzene	5.00	5.31		ug/L		106	80 - 120
Styrene	5.00	5.73		ug/L		115	80 - 120
1,4-Dichlorobenzene	5.00	5.27		ug/L		105	80 - 120
1,2-Dibromoethane	5.00	5.44		ug/L		109	80 - 120
1,1-Dichloropropene	5.00	5.38		ug/L		108	74 - 120
1,2-Dichloroethane	5.00	5.33		ug/L		107	69 - 122
1,2,3-Trichlorobenzene	5.00	4.51		ug/L		90	68 - 125
1,2,3-Trichloropropane	5.00	5.70		ug/L		114	80 - 125
Toluene	5.00	5.12		ug/L		102	80 - 120
Chlorobenzene	5.00	5.21		ug/L		104	80 - 120
1,2,4-Trimethylbenzene	5.00	5.54		ug/L		111	80 - 120
1,2,4-Trichlorobenzene	5.00	4.73		ug/L		95	68 - 122
Dibromochloromethane	5.00	5.45		ug/L		109	64 - 138
Xylenes, Total	15.0	15.9		ug/L		106	80 - 120
Tetrachloroethene	5.00	4.91		ug/L		98	80 - 120
cis-1,2-Dichloroethene	5.00	5.32		ug/L		106	80 - 122

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-288122/4
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	5.00	5.15		ug/L		103	80 - 122
Methyl tertiary butyl ether	5.00	5.26		ug/L		105	69 - 120
1,3,5-Trimethylbenzene	5.00	5.41		ug/L		108	80 - 120
1,3-Dichlorobenzene	5.00	5.26		ug/L		105	80 - 120
1,3-Dichloropropane	5.00	5.52		ug/L		110	80 - 120
Chloroform	5.00	5.32		ug/L		106	80 - 120
Benzene	5.00	5.24		ug/L		105	80 - 120
1,1,1-Trichloroethane	5.00	5.07		ug/L		101	78 - 126
Bromomethane	5.00	5.03		ug/L		101	60 - 136
Chloromethane	5.00	5.03		ug/L		101	56 - 124
Chloroethane	5.00	5.32		ug/L		106	63 - 120
2,2-Dichloropropane	5.00	5.50		ug/L		110	61 - 141
Vinyl chloride	5.00	5.05		ug/L		101	60 - 125
Methylene Chloride	5.00	5.08		ug/L		102	80 - 120
Carbon disulfide	5.00	5.49		ug/L		110	67 - 130
Bromoform	5.00	5.45		ug/L		109	49 - 144
Bromodichloromethane	5.00	5.54		ug/L		111	73 - 124
1,1-Dichloroethane	5.00	5.20		ug/L		104	74 - 120
2-Chlorotoluene	5.00	5.43		ug/L		109	80 - 120
1,1-Dichloroethene	5.00	5.06		ug/L		101	80 - 131
Trichlorofluoromethane	5.00	4.99		ug/L		100	62 - 136
4-Chlorotoluene	5.00	5.45		ug/L		109	80 - 120
Dichlorodifluoromethane	5.00	4.64		ug/L		93	43 - 123
1,2-Dichloropropane	5.00	5.34		ug/L		107	80 - 120
1,1,2-Trichloroethane	5.00	5.43		ug/L		109	80 - 120
Acrylonitrile	25.0	25.3		ug/L		101	64 - 139
Trichloroethene	5.00	5.16		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	5.00	5.67		ug/L		113	75 - 123
1,2-Dichlorobenzene	5.00	5.16		ug/L		103	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.88		ug/L		98	56 - 148
Bromobenzene	5.00	5.47		ug/L		109	80 - 120
Bromochloromethane	5.00	5.25		ug/L		105	80 - 120
Isopropylbenzene	5.00	5.47		ug/L		109	80 - 120
Dibromomethane	5.00	5.34		ug/L		107	80 - 122
di-Isopropyl ether	5.00	5.54		ug/L		111	58 - 131
Ethyl t-butyl ether	5.00	5.51		ug/L		110	57 - 126
Hexachlorobutadiene	5.00	4.30		ug/L		86	72 - 132
Naphthalene	5.00	4.76		ug/L		95	64 - 122
n-Butylbenzene	5.00	5.57		ug/L		111	74 - 123
N-Propylbenzene	5.00	5.55		ug/L		111	74 - 122
p-Isopropyltoluene	5.00	5.50		ug/L		110	80 - 120
sec-Butylbenzene	5.00	5.49		ug/L		110	80 - 120
t-Amyl methyl ether	5.00	5.36		ug/L		107	65 - 125
t-Butyl alcohol	50.0	37.3		ug/L		75	62 - 138
tert-Butylbenzene	5.00	5.26		ug/L		105	79 - 120
trans-1,4-Dichloro-2-butene	25.0	26.4		ug/L		105	10 - 172

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-288122/4
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 410-288122/5
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.10		ug/L		102	71 - 134	2	30
cis-1,3-Dichloropropene			5.00	5.31		ug/L		106	67 - 121	2	30
trans-1,3-Dichloropropene			5.00	5.63		ug/L		113	61 - 129	4	30
Ethylbenzene			5.00	5.26		ug/L		105	80 - 120	1	30
Styrene			5.00	5.52		ug/L		110	80 - 120	4	30
1,4-Dichlorobenzene			5.00	5.22		ug/L		104	80 - 120	1	30
1,2-Dibromoethane			5.00	5.30		ug/L		106	80 - 120	3	30
1,1-Dichloropropene			5.00	5.34		ug/L		107	74 - 120	1	30
1,2-Dichloroethane			5.00	5.40		ug/L		108	69 - 122	1	30
1,2,3-Trichlorobenzene			5.00	4.21		ug/L		84	68 - 125	7	30
1,2,3-Trichloropropane			5.00	5.52		ug/L		110	80 - 125	3	30
Toluene			5.00	5.13		ug/L		103	80 - 120	0	30
Chlorobenzene			5.00	5.14		ug/L		103	80 - 120	1	30
1,2,4-Trimethylbenzene			5.00	5.50		ug/L		110	80 - 120	1	30
1,2,4-Trichlorobenzene			5.00	4.58		ug/L		92	68 - 122	3	30
Dibromochloromethane			5.00	5.36		ug/L		107	64 - 138	2	30
Xylenes, Total			15.0	15.7		ug/L		105	80 - 120	1	30
Tetrachloroethene			5.00	4.88		ug/L		98	80 - 120	1	30
cis-1,2-Dichloroethene			5.00	5.23		ug/L		105	80 - 122	2	30
trans-1,2-Dichloroethene			5.00	5.01		ug/L		100	80 - 122	3	30
Methyl tertiary butyl ether			5.00	5.00		ug/L		100	69 - 120	5	30
1,3,5-Trimethylbenzene			5.00	5.42		ug/L		108	80 - 120	0	30
1,3-Dichlorobenzene			5.00	5.26		ug/L		105	80 - 120	0	30
1,3-Dichloropropane			5.00	5.37		ug/L		107	80 - 120	3	30
Chloroform			5.00	5.23		ug/L		105	80 - 120	2	30
Benzene			5.00	5.25		ug/L		105	80 - 120	0	30
1,1,1-Trichloroethane			5.00	5.05		ug/L		101	78 - 126	0	30
Bromomethane			5.00	4.87		ug/L		97	60 - 136	3	30
Chloromethane			5.00	4.94		ug/L		99	56 - 124	2	30
Chloroethane			5.00	5.07		ug/L		101	63 - 120	5	30
2,2-Dichloropropane			5.00	5.44		ug/L		109	61 - 141	1	30
Vinyl chloride			5.00	4.91		ug/L		98	60 - 125	3	30
Methylene Chloride			5.00	4.95		ug/L		99	80 - 120	2	30
Carbon disulfide			5.00	5.46		ug/L		109	67 - 130	1	30
Bromoform			5.00	5.24		ug/L		105	49 - 144	4	30
Bromodichloromethane			5.00	5.49		ug/L		110	73 - 124	1	30
1,1-Dichloroethane			5.00	5.15		ug/L		103	74 - 120	1	30
2-Chlorotoluene			5.00	5.38		ug/L		108	80 - 120	1	30

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-288122/5
Matrix: Water
Analysis Batch: 288122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	5.00	5.01		ug/L		100	80 - 131	1	30
Trichlorofluoromethane	5.00	4.70		ug/L		94	62 - 136	6	30
4-Chlorotoluene	5.00	5.59		ug/L		112	80 - 120	2	30
Dichlorodifluoromethane	5.00	4.60		ug/L		92	43 - 123	1	30
1,2-Dichloropropane	5.00	5.28		ug/L		106	80 - 120	1	30
1,1,2-Trichloroethane	5.00	5.35		ug/L		107	80 - 120	2	30
Acrylonitrile	25.0	25.2		ug/L		101	64 - 139	0	30
Trichloroethene	5.00	5.10		ug/L		102	80 - 120	1	30
1,1,2,2-Tetrachloroethane	5.00	5.50		ug/L		110	75 - 123	3	30
1,2-Dichlorobenzene	5.00	5.13		ug/L		103	80 - 120	1	30
1,2-Dibromo-3-Chloropropane	5.00	4.63		ug/L		93	56 - 148	5	30
Bromobenzene	5.00	5.42		ug/L		108	80 - 120	1	30
Bromochloromethane	5.00	5.14		ug/L		103	80 - 120	2	30
Isopropylbenzene	5.00	5.23		ug/L		105	80 - 120	4	30
Dibromomethane	5.00	5.32		ug/L		106	80 - 122	0	30
di-Isopropyl ether	5.00	5.47		ug/L		109	58 - 131	1	30
Ethyl t-butyl ether	5.00	5.36		ug/L		107	57 - 126	3	30
Hexachlorobutadiene	5.00	4.28		ug/L		86	72 - 132	1	30
Naphthalene	5.00	4.33		ug/L		87	64 - 122	9	30
n-Butylbenzene	5.00	5.49		ug/L		110	74 - 123	1	30
N-Propylbenzene	5.00	5.58		ug/L		112	74 - 122	1	30
p-Isopropyltoluene	5.00	5.47		ug/L		109	80 - 120	1	30
sec-Butylbenzene	5.00	5.49		ug/L		110	80 - 120	0	30
t-Amyl methyl ether	5.00	5.22		ug/L		104	65 - 125	3	30
t-Butyl alcohol	50.0	41.6		ug/L		83	62 - 138	11	30
tert-Butylbenzene	5.00	5.28		ug/L		106	79 - 120	0	30
trans-1,4-Dichloro-2-butene	25.0	27.0		ug/L		108	10 - 172	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 410-288625/7
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/23/22 10:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Styrene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,4-Dichlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,2-Dibromoethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,1-Dichloropropene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/23/22 10:24	1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-288625/7
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,2,3-Trichloropropane	ND		1.0	0.10	ug/L			08/23/22 10:24	1
Toluene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/23/22 10:24	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/23/22 10:24	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Methyl tertiary butyl ether	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,3-Dichlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,3-Dichloropropane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Chloroform	ND		0.50	0.090	ug/L			08/23/22 10:24	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Bromomethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Chloromethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Chloroethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
2,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Methylene Chloride	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/23/22 10:24	1
Bromoform	ND		1.0	0.30	ug/L			08/23/22 10:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
2-Chlorotoluene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
4-Chlorotoluene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Acrylonitrile	ND		5.0	0.40	ug/L			08/23/22 10:24	1
Trichloroethene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
1,2-Dichlorobenzene	ND		0.50	0.070	ug/L			08/23/22 10:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Bromobenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Isopropylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Dibromomethane	ND		0.50	0.080	ug/L			08/23/22 10:24	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 10:24	1
Ethyl t-butyl ether	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Hexachlorobutadiene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
Naphthalene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
n-Butylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-288625/7
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
p-Isopropyltoluene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
sec-Butylbenzene	ND		0.50	0.10	ug/L			08/23/22 10:24	1
t-Amyl methyl ether	ND		0.50	0.20	ug/L			08/23/22 10:24	1
t-Butyl alcohol	ND		10	3.0	ug/L			08/23/22 10:24	1
tert-Butylbenzene	ND		0.50	0.080	ug/L			08/23/22 10:24	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.0	ug/L			08/23/22 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/23/22 10:24*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*08/23/22 10:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/23/22 10:24*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/23/22 10:24*	*1*

Lab Sample ID: LCS 410-288625/4
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.76		ug/L		115	71 - 134
cis-1,3-Dichloropropene	5.00	6.00		ug/L		120	67 - 121
trans-1,3-Dichloropropene	5.00	5.93		ug/L		119	61 - 129
Ethylbenzene	5.00	5.46		ug/L		109	80 - 120
Styrene	5.00	5.65		ug/L		113	80 - 120
1,4-Dichlorobenzene	5.00	5.52		ug/L		110	80 - 120
1,2-Dibromoethane	5.00	5.99		ug/L		120	80 - 120
1,1-Dichloropropene	5.00	5.79		ug/L		116	74 - 120
1,2-Dichloroethane	5.00	6.12		ug/L		122	69 - 122
1,2,3-Trichlorobenzene	5.00	5.11		ug/L		102	68 - 125
1,2,3-Trichloropropane	5.00	5.93		ug/L		119	80 - 125
Toluene	5.00	5.38		ug/L		108	80 - 120
Chlorobenzene	5.00	5.65		ug/L		113	80 - 120
1,2,4-Trimethylbenzene	5.00	5.21		ug/L		104	80 - 120
1,2,4-Trichlorobenzene	5.00	5.13		ug/L		103	68 - 122
Dibromochloromethane	5.00	6.01		ug/L		120	64 - 138
Xylenes, Total	15.0	16.6		ug/L		111	80 - 120
Tetrachloroethene	5.00	5.39		ug/L		108	80 - 120
cis-1,2-Dichloroethene	5.00	6.01		ug/L		120	80 - 122
trans-1,2-Dichloroethene	5.00	5.88		ug/L		118	80 - 122
Methyl tertiary butyl ether	5.00	5.97		ug/L		119	69 - 120
1,3,5-Trimethylbenzene	5.00	5.20		ug/L		104	80 - 120
1,3-Dichlorobenzene	5.00	5.38		ug/L		108	80 - 120
1,3-Dichloropropane	5.00	5.84		ug/L		117	80 - 120
Chloroform	5.00	5.86		ug/L		117	80 - 120
Benzene	5.00	5.76		ug/L		115	80 - 120
1,1,1-Trichloroethane	5.00	5.73		ug/L		115	78 - 126
Bromomethane	5.00	5.34		ug/L		107	60 - 136
Chloromethane	5.00	5.50		ug/L		110	56 - 124

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-288625/4
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	5.00	5.42		ug/L		108	63 - 120
2,2-Dichloropropane	5.00	5.96		ug/L		119	61 - 141
Vinyl chloride	5.00	5.19		ug/L		104	60 - 125
Methylene Chloride	5.00	6.00		ug/L		120	80 - 120
Carbon disulfide	5.00	6.56	*+	ug/L		131	67 - 130
Bromoform	5.00	6.26		ug/L		125	49 - 144
Bromodichloromethane	5.00	6.06		ug/L		121	73 - 124
1,1-Dichloroethane	5.00	5.69		ug/L		114	74 - 120
2-Chlorotoluene	5.00	5.42		ug/L		108	80 - 120
1,1-Dichloroethene	5.00	5.91		ug/L		118	80 - 131
Trichlorofluoromethane	5.00	5.36		ug/L		107	62 - 136
4-Chlorotoluene	5.00	5.55		ug/L		111	80 - 120
Dichlorodifluoromethane	5.00	5.14		ug/L		103	43 - 123
1,2-Dichloropropane	5.00	5.86		ug/L		117	80 - 120
1,1,2-Trichloroethane	5.00	5.81		ug/L		116	80 - 120
Acrylonitrile	25.0	22.2		ug/L		89	64 - 139
Trichloroethene	5.00	5.67		ug/L		113	80 - 120
1,1,2,2-Tetrachloroethane	5.00	5.87		ug/L		117	75 - 123
1,2-Dichlorobenzene	5.00	5.50		ug/L		110	80 - 120
1,2-Dibromo-3-Chloropropane	5.00	6.13		ug/L		123	56 - 148
Bromobenzene	5.00	5.73		ug/L		115	80 - 120
Bromochloromethane	5.00	5.90		ug/L		118	80 - 120
Isopropylbenzene	5.00	5.55		ug/L		111	80 - 120
Dibromomethane	5.00	5.99		ug/L		120	80 - 122
di-Isopropyl ether	5.00	5.71		ug/L		114	58 - 131
Ethyl t-butyl ether	5.00	5.87		ug/L		117	57 - 126
Hexachlorobutadiene	5.00	3.83		ug/L		77	72 - 132
Naphthalene	5.00	5.33		ug/L		107	64 - 122
n-Butylbenzene	5.00	4.80		ug/L		96	74 - 123
N-Propylbenzene	5.00	5.19		ug/L		104	74 - 122
p-Isopropyltoluene	5.00	5.14		ug/L		103	80 - 120
sec-Butylbenzene	5.00	5.12		ug/L		102	80 - 120
t-Amyl methyl ether	5.00	5.89		ug/L		118	65 - 125
t-Butyl alcohol	50.0	58.2		ug/L		116	62 - 138
tert-Butylbenzene	5.00	5.09		ug/L		102	79 - 120
trans-1,4-Dichloro-2-butene	25.0	18.2		ug/L		73	10 - 172

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-288625/5
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.63		ug/L		113	71 - 134	2	30
cis-1,3-Dichloropropene			5.00	5.88		ug/L		118	67 - 121	2	30
trans-1,3-Dichloropropene			5.00	5.94		ug/L		119	61 - 129	0	30
Ethylbenzene			5.00	5.40		ug/L		108	80 - 120	1	30
Styrene			5.00	5.49		ug/L		110	80 - 120	3	30
1,4-Dichlorobenzene			5.00	5.36		ug/L		107	80 - 120	3	30
1,2-Dibromoethane			5.00	5.93		ug/L		119	80 - 120	1	30
1,1-Dichloropropene			5.00	5.70		ug/L		114	74 - 120	2	30
1,2-Dichloroethane			5.00	5.96		ug/L		119	69 - 122	3	30
1,2,3-Trichlorobenzene			5.00	4.77		ug/L		95	68 - 125	7	30
1,2,3-Trichloropropane			5.00	5.87		ug/L		117	80 - 125	1	30
Toluene			5.00	5.40		ug/L		108	80 - 120	0	30
Chlorobenzene			5.00	5.54		ug/L		111	80 - 120	2	30
1,2,4-Trimethylbenzene			5.00	5.13		ug/L		103	80 - 120	2	30
1,2,4-Trichlorobenzene			5.00	4.90		ug/L		98	68 - 122	5	30
Dibromochloromethane			5.00	5.86		ug/L		117	64 - 138	2	30
Xylenes, Total			15.0	16.4		ug/L		109	80 - 120	1	30
Tetrachloroethene			5.00	5.33		ug/L		107	80 - 120	1	30
cis-1,2-Dichloroethene			5.00	5.84		ug/L		117	80 - 122	3	30
trans-1,2-Dichloroethene			5.00	5.75		ug/L		115	80 - 122	2	30
Methyl tertiary butyl ether			5.00	5.78		ug/L		116	69 - 120	3	30
1,3,5-Trimethylbenzene			5.00	5.13		ug/L		103	80 - 120	1	30
1,3-Dichlorobenzene			5.00	5.30		ug/L		106	80 - 120	1	30
1,3-Dichloropropane			5.00	5.79		ug/L		116	80 - 120	1	30
Chloroform			5.00	5.75		ug/L		115	80 - 120	2	30
Benzene			5.00	5.67		ug/L		113	80 - 120	2	30
1,1,1-Trichloroethane			5.00	5.61		ug/L		112	78 - 126	2	30
Bromomethane			5.00	5.25		ug/L		105	60 - 136	2	30
Chloromethane			5.00	5.42		ug/L		108	56 - 124	1	30
Chloroethane			5.00	5.36		ug/L		107	63 - 120	1	30
2,2-Dichloropropane			5.00	5.87		ug/L		117	61 - 141	2	30
Vinyl chloride			5.00	5.12		ug/L		102	60 - 125	1	30
Methylene Chloride			5.00	5.90		ug/L		118	80 - 120	2	30
Carbon disulfide			5.00	6.43		ug/L		129	67 - 130	2	30
Bromoform			5.00	6.07		ug/L		121	49 - 144	3	30
Bromodichloromethane			5.00	5.96		ug/L		119	73 - 124	2	30
1,1-Dichloroethane			5.00	5.58		ug/L		112	74 - 120	2	30
2-Chlorotoluene			5.00	5.33		ug/L		107	80 - 120	2	30
1,1-Dichloroethene			5.00	5.87		ug/L		117	80 - 131	1	30
Trichlorofluoromethane			5.00	5.32		ug/L		106	62 - 136	1	30
4-Chlorotoluene			5.00	5.50		ug/L		110	80 - 120	1	30
Dichlorodifluoromethane			5.00	5.14		ug/L		103	43 - 123	0	30
1,2-Dichloropropane			5.00	5.69		ug/L		114	80 - 120	3	30
1,1,2-Trichloroethane			5.00	5.77		ug/L		115	80 - 120	1	30
Acrylonitrile			25.0	22.6		ug/L		91	64 - 139	2	30
Trichloroethene			5.00	5.58		ug/L		112	80 - 120	2	30
1,1,2,2-Tetrachloroethane			5.00	5.85		ug/L		117	75 - 123	0	30
1,2-Dichlorobenzene			5.00	5.40		ug/L		108	80 - 120	2	30

Method: 8260C LL - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-288625/5
Matrix: Water
Analysis Batch: 288625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			5.00	6.30		ug/L		126	56 - 148	3	30
Bromobenzene			5.00	5.66		ug/L		113	80 - 120	1	30
Bromochloromethane			5.00	6.01		ug/L		120	80 - 120	2	30
Isopropylbenzene			5.00	5.42		ug/L		108	80 - 120	2	30
Dibromomethane			5.00	6.02		ug/L		120	80 - 122	0	30
di-Isopropyl ether			5.00	5.55		ug/L		111	58 - 131	3	30
Ethyl t-butyl ether			5.00	5.76		ug/L		115	57 - 126	2	30
Hexachlorobutadiene			5.00	3.70		ug/L		74	72 - 132	4	30
Naphthalene			5.00	5.09		ug/L		102	64 - 122	5	30
n-Butylbenzene			5.00	4.72		ug/L		94	74 - 123	2	30
N-Propylbenzene			5.00	5.20		ug/L		104	74 - 122	0	30
p-Isopropyltoluene			5.00	5.02		ug/L		100	80 - 120	2	30
sec-Butylbenzene			5.00	4.99		ug/L		100	80 - 120	3	30
t-Amyl methyl ether			5.00	5.77		ug/L		115	65 - 125	2	30
t-Butyl alcohol			50.0	54.8		ug/L		110	62 - 138	6	30
tert-Butylbenzene			5.00	4.96		ug/L		99	79 - 120	2	30
trans-1,4-Dichloro-2-butene			25.0	19.1		ug/L		76	10 - 172	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

GC/MS VOA

Analysis Batch: 288122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94984-1	MW-7	Total/NA	Water	8260C LL	
410-94984-2	MW-17	Total/NA	Water	8260C LL	
410-94984-3	MW-14D	Total/NA	Water	8260C LL	
410-94984-4	MW-18D	Total/NA	Water	8260C LL	
410-94984-5	MW-18S-R	Total/NA	Water	8260C LL	
MB 410-288122/7	Method Blank	Total/NA	Water	8260C LL	
LCS 410-288122/4	Lab Control Sample	Total/NA	Water	8260C LL	
LCSD 410-288122/5	Lab Control Sample Dup	Total/NA	Water	8260C LL	

Analysis Batch: 288625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94984-5 - DL	MW-18S-R	Total/NA	Water	8260C LL	
MB 410-288625/7	Method Blank	Total/NA	Water	8260C LL	
LCS 410-288625/4	Lab Control Sample	Total/NA	Water	8260C LL	
LCSD 410-288625/5	Lab Control Sample Dup	Total/NA	Water	8260C LL	

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94984-1

Client Sample ID: MW-7

Lab Sample ID: 410-94984-1

Date Collected: 08/16/22 09:45

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C LL		1	288122	DVW2	ELLE	08/21/22 17:31

Client Sample ID: MW-17

Lab Sample ID: 410-94984-2

Date Collected: 08/16/22 10:55

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C LL		1	288122	DVW2	ELLE	08/21/22 17:52

Client Sample ID: MW-14D

Lab Sample ID: 410-94984-3

Date Collected: 08/16/22 11:55

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C LL		1	288122	DVW2	ELLE	08/21/22 18:13

Client Sample ID: MW-18D

Lab Sample ID: 410-94984-4

Date Collected: 08/16/22 13:00

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C LL		1	288122	DVW2	ELLE	08/21/22 18:34

Client Sample ID: MW-18S-R

Lab Sample ID: 410-94984-5

Date Collected: 08/16/22 13:55

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C LL	DL	10	288625	DVW2	ELLE	08/23/22 14:47
Total/NA	Analysis	8260C LL		1	288122	DVW2	ELLE	08/21/22 18:55

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C LL		Water	1,1,1,2-Tetrachloroethane
8260C LL		Water	1,1,1-Trichloroethane
8260C LL		Water	1,1,2,2-Tetrachloroethane
8260C LL		Water	1,1,2-Trichloroethane
8260C LL		Water	1,1-Dichloroethane
8260C LL		Water	1,1-Dichloroethene
8260C LL		Water	1,1-Dichloropropene
8260C LL		Water	1,2,3-Trichlorobenzene
8260C LL		Water	1,2,3-Trichloropropane
8260C LL		Water	1,2,4-Trichlorobenzene
8260C LL		Water	1,2,4-Trimethylbenzene
8260C LL		Water	1,2-Dibromo-3-Chloropropane
8260C LL		Water	1,2-Dibromoethane
8260C LL		Water	1,2-Dichlorobenzene
8260C LL		Water	1,2-Dichloroethane
8260C LL		Water	1,2-Dichloropropane
8260C LL		Water	1,3,5-Trimethylbenzene
8260C LL		Water	1,3-Dichlorobenzene
8260C LL		Water	1,3-Dichloropropane
8260C LL		Water	1,4-Dichlorobenzene
8260C LL		Water	2,2-Dichloropropane
8260C LL		Water	2-Chlorotoluene
8260C LL		Water	4-Chlorotoluene
8260C LL		Water	Acrylonitrile
8260C LL		Water	Benzene
8260C LL		Water	Bromobenzene
8260C LL		Water	Bromochloromethane
8260C LL		Water	Bromodichloromethane
8260C LL		Water	Bromoform
8260C LL		Water	Bromomethane
8260C LL		Water	Carbon disulfide
8260C LL		Water	Chlorobenzene
8260C LL		Water	Chloroethane
8260C LL		Water	Chloroform
8260C LL		Water	Chloromethane
8260C LL		Water	cis-1,2-Dichloroethene
8260C LL		Water	cis-1,3-Dichloropropene
8260C LL		Water	Dibromochloromethane
8260C LL		Water	Dibromomethane
8260C LL		Water	Dichlorodifluoromethane
8260C LL		Water	di-Isopropyl ether
8260C LL		Water	Ethyl t-butyl ether
8260C LL		Water	Ethylbenzene
8260C LL		Water	Hexachlorobutadiene
8260C LL		Water	Isopropylbenzene

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C LL		Water	Methyl tertiary butyl ether
8260C LL		Water	Methylene Chloride
8260C LL		Water	Naphthalene
8260C LL		Water	n-Butylbenzene
8260C LL		Water	N-Propylbenzene
8260C LL		Water	p-Isopropyltoluene
8260C LL		Water	sec-Butylbenzene
8260C LL		Water	Styrene
8260C LL		Water	t-Amyl methyl ether
8260C LL		Water	t-Butyl alcohol
8260C LL		Water	tert-Butylbenzene
8260C LL		Water	Tetrachloroethene
8260C LL		Water	Toluene
8260C LL		Water	trans-1,2-Dichloroethene
8260C LL		Water	trans-1,3-Dichloropropene
8260C LL		Water	trans-1,4-Dichloro-2-butene
8260C LL		Water	Trichloroethene
8260C LL		Water	Trichlorofluoromethane
8260C LL		Water	Vinyl chloride
8260C LL		Water	Xylenes, Total

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94984-1

Method	Method Description	Protocol	Laboratory
8260C LL	Volatile Organic Compounds by GC/MS	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94984-1
Project/Site: Carroll Monrovia

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-94984-1	MW-7	Water	08/16/22 09:45	08/18/22 17:00
410-94984-2	MW-17	Water	08/16/22 10:55	08/18/22 17:00
410-94984-3	MW-14D	Water	08/16/22 11:55	08/18/22 17:00
410-94984-4	MW-18D	Water	08/16/22 13:00	08/18/22 17:00
410-94984-5	MW-18S-R	Water	08/16/22 13:55	08/18/22 17:00

410-94984 Chain of Custody

Environmental Analysis Request/Chain of Custody

Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: **Groundwater & Env. Services, Inc.**

Project Name/#: Carroll Monrovia | Site ID #:

Project Manager: Peter Reichardt | P.O. #: 0403342/06/206

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 x 3726 | Quote #:

State where sample(s) were collected: 11791 Fingerboard Rd, Monrovia, MD

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Water: Ground	Water: NPDES	Water: Surface	Other:	Total # of Containers	Analyses Requested: Full Suite VOCs plus oxygenates and Napthalene (8260)
													Preservation Codes: H
MW-7	8/16/22	9:45	x					x				3	x
MW-17	8/16/22	10:55	x					x				3	x
MW-14D	8/16/22	11:55	x					x				3	x
MW-18D	8/16/22	1300	x					x				3	x
MW-18S-R	8/16/22	1355	x					x				3	x

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Remarks

EQEDD file name:
Carroll Monrovia-lab
report #.17953.
EQEDD.zip
Send invoice to:
ges-invoices@
gesonline.com &
include PO #

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: Carroll Monrovia-lab report #.17953.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/18/22	0900	[signature]	8/18/22	0900
[signature]	8/18/22	1322	[signature]	8/18/22	13:22
[signature]	8/18/22	16:38			
			[signature]	8/18/22	17:00

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.6 °C

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 410-94984-1

Login Number: 94984

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-94986-1
Client Project/Site: Carroll Monrovia

For:
Groundwater & Environmental Services Inc
1350 Blair Drive
Suite H-2
Odenton, Maryland 21113

Attn: Peter Reichardt

Authorized for release by:
8/28/2022 10:38:33 AM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@et.eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
8/28/2022 10:38:33 AM

Table of Contents

Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-94986-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-94986-1

Receipt
The samples were received on 8/18/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions
A trip blank was not submitted for analysis with this sample shipment; and was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 524.2_Preserved: Volatile compounds have been detected above the RL for the following samples: GVP-INF (410-94986-1), 3990-FARM-INF (410-94986-4), 3923-ROSE-INF (410-94986-5), 3996-FARM-INF (410-94986-8) and 3992-FARM-INF (410-94986-12). Since a field reagent blank/trip blank was not submitted, any potential contamination from the sampling/transport process cannot be assessed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: GVP-INF — Lab Sample ID: 410-94986-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.56	cn	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 3990-FARM-EFF — Lab Sample ID: 410-94986-2

No Detections.

Client Sample ID: 3990-FARM-MID2 — Lab Sample ID: 410-94986-3

No Detections.

Client Sample ID: 3990-FARM-INF — Lab Sample ID: 410-94986-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Amyl methyl ether	0.50	cn	0.50	0.10	ug/L	1		524.2	Total/NA
Methyl tertiary butyl ether	23	cn	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 3923-ROSE-INF — Lab Sample ID: 410-94986-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.55	cn	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 3996-FARM-EFF — Lab Sample ID: 410-94986-6

No Detections.

Client Sample ID: 3996-FARM-MID2 — Lab Sample ID: 410-94986-7

No Detections.

Client Sample ID: 3996-FARM-INF — Lab Sample ID: 410-94986-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	1.2	cn	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 3997-FARM-INF — Lab Sample ID: 410-94986-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.13	J	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 3992-FARM-EFF — Lab Sample ID: 410-94986-10

No Detections.

Client Sample ID: 3992-FARM-MID2 — Lab Sample ID: 410-94986-11

No Detections.

Client Sample ID: 3992-FARM-INF — Lab Sample ID: 410-94986-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Amyl methyl ether	0.27	J cn	0.50	0.10	ug/L	1		524.2	Total/NA
di-Isopropyl ether	0.11	J cn	0.50	0.10	ug/L	1		524.2	Total/NA
Methyl tertiary butyl ether	13	cn	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: GVP-INF
Lab Sample ID: 410-94986-1
Date Collected: 08/17/22 09:10
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Benzene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			08/23/22 12:44	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
di-Isopropyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Methyl tertiary butyl ether	**0.56**	**cn**	0.50	0.10	ug/L			08/23/22 12:44	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			08/23/22 12:44	1
Naphthalene	ND	cn	0.50	0.20	ug/L			08/23/22 12:44	1
Styrene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Toluene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			08/23/22 12:44	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			08/23/22 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*	*cn*	*80 - 120*		*08/23/22 12:44*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*	*cn*	*80 - 120*		*08/23/22 12:44*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3990-FARM-EFF
Lab Sample ID: 410-94986-2
Date Collected: 08/17/22 09:40
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 13:07	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 13:07	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 13:07	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 13:07	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:07	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 13:07	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/23/22 13:07*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*97*		*80 - 120*		*08/23/22 13:07*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3990-FARM-MID2
Lab Sample ID: 410-94986-3
Date Collected: 08/17/22 09:45
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 13:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 13:31	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 13:31	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 13:31	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:31	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 13:31	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/23/22 13:31*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*98*		*80 - 120*		*08/23/22 13:31*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3990-FARM-INF
Lab Sample ID: 410-94986-4
Date Collected: 08/17/22 09:50
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	**0.50**	**cn**	0.50	0.10	ug/L			08/23/22 13:54	1
Benzene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			08/23/22 13:54	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
di-Isopropyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Methyl tertiary butyl ether	**23**	**cn**	0.50	0.10	ug/L			08/23/22 13:54	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			08/23/22 13:54	1
Naphthalene	ND	cn	0.50	0.20	ug/L			08/23/22 13:54	1
Styrene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Toluene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			08/23/22 13:54	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			08/23/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*	*cn*	*80 - 120*		*08/23/22 13:54*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*98*	*cn*	*80 - 120*		*08/23/22 13:54*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3923-ROSE-INF
Lab Sample ID: 410-94986-5
Date Collected: 08/17/22 10:40
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Benzene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			08/23/22 14:17	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
di-Isopropyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Methyl tertiary butyl ether	**0.55**	**cn**	0.50	0.10	ug/L			08/23/22 14:17	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			08/23/22 14:17	1
Naphthalene	ND	cn	0.50	0.20	ug/L			08/23/22 14:17	1
Styrene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Toluene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			08/23/22 14:17	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			08/23/22 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*	*cn*	*80 - 120*		*08/23/22 14:17*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*	*cn*	*80 - 120*		*08/23/22 14:17*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3996-FARM-EFF
Lab Sample ID: 410-94986-6
Date Collected: 08/17/22 13:10
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 14:40	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 14:40	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 14:40	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 14:40	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 14:40	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 14:40	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/23/22 14:40*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*98*		*80 - 120*		*08/23/22 14:40*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3996-FARM-MID2
Lab Sample ID: 410-94986-7
Date Collected: 08/17/22 13:15
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 15:04	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 15:04	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 15:04	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 15:04	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:04	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 15:04	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/23/22 15:04*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*97*		*80 - 120*		*08/23/22 15:04*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3996-FARM-INF
Lab Sample ID: 410-94986-8
Date Collected: 08/17/22 13:20
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Benzene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			08/23/22 15:27	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
di-Isopropyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Methyl tertiary butyl ether	**1.2**	**cn**	0.50	0.10	ug/L			08/23/22 15:27	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			08/23/22 15:27	1
Naphthalene	ND	cn	0.50	0.20	ug/L			08/23/22 15:27	1
Styrene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Toluene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			08/23/22 15:27	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			08/23/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*	*cn*	*80 - 120*		*08/23/22 15:27*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*	*cn*	*80 - 120*		*08/23/22 15:27*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3997-FARM-INF
Lab Sample ID: 410-94986-9
Date Collected: 08/17/22 13:40
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 15:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Methyl tertiary butyl ether	**0.13**	**J**	0.50	0.10	ug/L			08/23/22 15:50	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 15:50	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 15:50	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 15:50	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:50	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 15:50	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/23/22 15:50*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*98*		*80 - 120*		*08/23/22 15:50*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3992-FARM-EFF
Lab Sample ID: 410-94986-10
Date Collected: 08/17/22 14:10
Matrix: Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 16:13	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 16:13	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 16:13	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 16:13	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:13	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 16:13	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/23/22 16:13*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*97*		*80 - 120*		*08/23/22 16:13*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3992-FARM-MID2
Lab Sample ID: 410-94986-11
Date Collected: 08/17/22 14:15
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 16:36	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 16:36	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 16:36	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 16:36	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:36	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 16:36	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/23/22 16:36*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*99*		*80 - 120*		*08/23/22 16:36*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Client Sample ID: 3992-FARM-INF
Lab Sample ID: 410-94986-12
Date Collected: 08/17/22 14:20
Matrix: Potable Water
Date Received: 08/18/22 17:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	**0.27**	**J cn**	0.50	0.10	ug/L			08/23/22 17:00	1
Benzene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			08/23/22 17:00	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
di-Isopropyl ether	**0.11**	**J cn**	0.50	0.10	ug/L			08/23/22 17:00	1
Methyl tertiary butyl ether	**13**	**cn**	0.50	0.10	ug/L			08/23/22 17:00	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			08/23/22 17:00	1
Naphthalene	ND	cn	0.50	0.20	ug/L			08/23/22 17:00	1
Styrene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Toluene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			08/23/22 17:00	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			08/23/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*	*cn*	*80 - 120*		*08/23/22 17:00*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*98*	*cn*	*80 - 120*		*08/23/22 17:00*	*1*

Surrogate Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94986-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Potable Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB	DCZ										
Lab Sample ID	Client Sample ID	(80-120)	(80-120)										
410-94986-3	3990-FARM-MID2	95	98										
410-94986-4	3990-FARM-INF	95 cn	98 cn										
410-94986-7	3996-FARM-MID2	95	97										
410-94986-8	3996-FARM-INF	94 cn	99 cn										
410-94986-11	3992-FARM-MID2	95	99										
410-94986-12	3992-FARM-INF	94 cn	98 cn										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB	DCZ										
Lab Sample ID	Client Sample ID	(80-120)	(80-120)										
410-94986-1	GVP-INF	94 cn	99 cn										
410-94986-2	3990-FARM-EFF	95	97										
410-94986-5	3923-ROSE-INF	96 cn	99 cn										
410-94986-6	3996-FARM-EFF	94	98										
410-94986-9	3997-FARM-INF	95	98										
410-94986-10	3992-FARM-EFF	93	97										
LCS 410-288697/5	Lab Control Sample	99	107										
MB 410-288697/7	Method Blank	96	97										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-288697/7
Matrix: Water
Analysis Batch: 288697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Benzene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
t-Butyl alcohol	ND		25	2.5	ug/L			08/23/22 12:20	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Chlorobenzene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Ethylbenzene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/23/22 12:20	1
Naphthalene	ND		0.50	0.20	ug/L			08/23/22 12:20	1
Styrene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Tetrachloroethene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Toluene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			08/23/22 12:20	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 12:20	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Trichloroethene	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/23/22 12:20	1
Xylenes, Total	ND		0.50	0.10	ug/L			08/23/22 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/23/22 12:20*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*97*		*80 - 120*		*08/23/22 12:20*	*1*

Lab Sample ID: LCS 410-288697/5
Matrix: Water
Analysis Batch: 288697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
t-Amyl methyl ether	5.00	4.74		ug/L		95	70 - 130
Benzene	5.00	5.08		ug/L		102	70 - 130
t-Butyl alcohol	50.0	64.9		ug/L		130	70 - 130
Carbon tetrachloride	5.00	4.49		ug/L		90	70 - 130
Chlorobenzene	5.00	5.17		ug/L		103	70 - 130
1,2-Dichlorobenzene	5.00	5.20		ug/L		104	70 - 130
1,3-Dichlorobenzene	5.00	5.06		ug/L		101	70 - 130
1,2-Dichloroethane	5.00	5.10		ug/L		102	70 - 130
1,1-Dichloroethene	5.00	5.47		ug/L		109	70 - 130
cis-1,2-Dichloroethene	5.00	5.09		ug/L		102	70 - 130
trans-1,2-Dichloroethene	5.00	5.21		ug/L		104	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-288697/5
Matrix: Water
Analysis Batch: 288697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dichloropropane			5.00	5.20		ug/L		104	70 - 130		
Ethyl t-butyl ether			5.00	4.88		ug/L		98	70 - 130		
Ethylbenzene			5.00	4.93		ug/L		99	70 - 130		
di-Isopropyl ether			5.00	4.97		ug/L		99	70 - 130		
Methyl tertiary butyl ether			5.00	5.30		ug/L		106	70 - 130		
Methylene Chloride			5.00	5.32		ug/L		106	70 - 130		
Naphthalene			5.00	4.74		ug/L		95	70 - 130		
Styrene			5.00	4.98		ug/L		100	70 - 130		
Tetrachloroethene			5.00	5.01		ug/L		100	70 - 130		
Toluene			5.00	5.00		ug/L		100	70 - 130		
1,2,4-Trichlorobenzene			5.00	4.91		ug/L		98	70 - 130		
1,1,1-Trichloroethane			5.00	4.82		ug/L		96	70 - 130		
1,1,2-Trichloroethane			5.00	5.29		ug/L		106	70 - 130		
Trichloroethene			5.00	4.88		ug/L		98	70 - 130		
Vinyl chloride			2.00	2.20		ug/L		110	70 - 130		
Xylenes, Total			15.0	14.8		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
1,2-Dichlorobenzene-d4 (Surr)	*107*		*80 - 120*

QC Association Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

GC/MS VOA

Analysis Batch: 288697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-94986-1	GVP-INF	Total/NA	Water	524.2	
410-94986-2	3990-FARM-EFF	Total/NA	Water	524.2	
410-94986-3	3990-FARM-MID2	Total/NA	Potable Water	524.2	
410-94986-4	3990-FARM-INF	Total/NA	Potable Water	524.2	
410-94986-5	3923-ROSE-INF	Total/NA	Water	524.2	
410-94986-6	3996-FARM-EFF	Total/NA	Water	524.2	
410-94986-7	3996-FARM-MID2	Total/NA	Potable Water	524.2	
410-94986-8	3996-FARM-INF	Total/NA	Potable Water	524.2	
410-94986-9	3997-FARM-INF	Total/NA	Water	524.2	
410-94986-10	3992-FARM-EFF	Total/NA	Water	524.2	
410-94986-11	3992-FARM-MID2	Total/NA	Potable Water	524.2	
410-94986-12	3992-FARM-INF	Total/NA	Potable Water	524.2	
MB 410-288697/7	Method Blank	Total/NA	Water	524.2	
LCS 410-288697/5	Lab Control Sample	Total/NA	Water	524.2	

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94986-1

Client Sample ID: GVP-INF
Lab Sample ID: 410-94986-1
Date Collected: 08/17/22 09:10
Matrix: Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 12:44

Client Sample ID: 3990-FARM-EFF
Lab Sample ID: 410-94986-2
Date Collected: 08/17/22 09:40
Matrix: Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 13:07

Client Sample ID: 3990-FARM-MID2
Lab Sample ID: 410-94986-3
Date Collected: 08/17/22 09:45
Matrix: Potable Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 13:31

Client Sample ID: 3990-FARM-INF
Lab Sample ID: 410-94986-4
Date Collected: 08/17/22 09:50
Matrix: Potable Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 13:54

Client Sample ID: 3923-ROSE-INF
Lab Sample ID: 410-94986-5
Date Collected: 08/17/22 10:40
Matrix: Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 14:17

Client Sample ID: 3996-FARM-EFF
Lab Sample ID: 410-94986-6
Date Collected: 08/17/22 13:10
Matrix: Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 14:40

Client Sample ID: 3996-FARM-MID2
Lab Sample ID: 410-94986-7
Date Collected: 08/17/22 13:15
Matrix: Potable Water
Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 15:04

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94986-1

Client Sample ID: 3996-FARM-INF

Lab Sample ID: 410-94986-8

Date Collected: 08/17/22 13:20

Matrix: Potable Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 15:27

Client Sample ID: 3997-FARM-INF

Lab Sample ID: 410-94986-9

Date Collected: 08/17/22 13:40

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 15:50

Client Sample ID: 3992-FARM-EFF

Lab Sample ID: 410-94986-10

Date Collected: 08/17/22 14:10

Matrix: Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 16:13

Client Sample ID: 3992-FARM-MID2

Lab Sample ID: 410-94986-11

Date Collected: 08/17/22 14:15

Matrix: Potable Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 16:36

Client Sample ID: 3992-FARM-INF

Lab Sample ID: 410-94986-12

Date Collected: 08/17/22 14:20

Matrix: Potable Water

Date Received: 08/18/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	288697	UJML	ELLE	08/23/22 17:00

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
524.2		Potable Water	1,3-Dichlorobenzene
524.2		Potable Water	di-Isopropyl ether
524.2		Potable Water	Ethyl t-butyl ether
524.2		Potable Water	Methyl tertiary butyl ether
524.2		Potable Water	Naphthalene
524.2		Potable Water	t-Amyl methyl ether
524.2		Potable Water	t-Butyl alcohol
524.2		Water	1,3-Dichlorobenzene
524.2		Water	di-Isopropyl ether
524.2		Water	Ethyl t-butyl ether
524.2		Water	Methyl tertiary butyl ether
524.2		Water	Naphthalene
524.2		Water	t-Amyl methyl ether
524.2		Water	t-Butyl alcohol

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-94986-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	ELLE

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-94986-1
Project/Site: Carroll Monrovia

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-94986-1	GVP-INF	Water	08/17/22 09:10	08/18/22 17:00
410-94986-2	3990-FARM-EFF	Water	08/17/22 09:40	08/18/22 17:00
410-94986-3	3990-FARM-MID2	Potable Water	08/17/22 09:45	08/18/22 17:00
410-94986-4	3990-FARM-INF	Potable Water	08/17/22 09:50	08/18/22 17:00
410-94986-5	3923-ROSE-INF	Water	08/17/22 10:40	08/18/22 17:00
410-94986-6	3996-FARM-EFF	Water	08/17/22 13:10	08/18/22 17:00
410-94986-7	3996-FARM-MID2	Potable Water	08/17/22 13:15	08/18/22 17:00
410-94986-8	3996-FARM-INF	Potable Water	08/17/22 13:20	08/18/22 17:00
410-94986-9	3997-FARM-INF	Water	08/17/22 13:40	08/18/22 17:00
410-94986-10	3992-FARM-EFF	Water	08/17/22 14:10	08/18/22 17:00
410-94986-11	3992-FARM-MID2	Potable Water	08/17/22 14:15	08/18/22 17:00
410-94986-12	3992-FARM-INF	Potable Water	08/17/22 14:20	08/18/22 17:00

410-94986 Chain of Custody

Environmental Analysis Request/Chain of Custody

Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater & Env. Services, Inc.

Project Name/#: Carroll Monrovia | Site ID #:

Project Manager: Peter Reichardt | P.O. #: 0403342/06/209

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 x 3726 | Quote #:

State where sample(s) were collected: 11791 Fingerboard Rd, Monrovia, MD

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Water: Ground	Water: NPDES	Water: Surface	Other:	Total # of Containers	Analyses Requested: Target VOCs List plus oxygenates and Napthalene (524.2)	Preservation Codes: H
GVP-INF	8-17-22	0910	X				X					3	X	
3990-FARM-EFF		0940												
3990-FARM-MID2		0945												
3990-FARM-INF		0950												
3923-ROSE-INF		1040												
3996-FARM-EFF		1310												
3996-FARM-MID2		1315												
3996-FARM-INF		1320												
3997-FARM-INF		1340	↓				↓					↓	↓	
3992-FARM-EFF	8-17-22	1410	X				X					3	X	

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Remarks

EQEDD file name:
Carroll Monrovia-lab report #.17953.EQEDD.zip

Send invoice to:
ges-invoices@gesonline.com & include PO #

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: Carroll Monrovia-lab report #.17953.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	8-18-22	0900	Denise Woodring	8-18-22	0900
Denise Woodring	8-18-22	1322		8/18/22	13:22
	8/18/22	16:38			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Received by: _____ Date 8/18/22 Time 17:00

Temperature upon receipt 1.6 °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater & Env. Services, Inc.

Project Name/#: Carroll Monrovia | Site ID #:

Project Manager: Peter Reichardt | P.O. #: 0403342/06/209

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 x 3726 | Quote #:

State where sample(s) were collected: 11791 Fingerboard Rd, Monrovia, MD

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Water: Ground	Water: NPDES	Water: Surface	Other:	Total # of Containers	Analyses Requested: Target VOCs List plus oxygenates and Naphthalene (524.2)	Preservation Codes: H
3992-FARM-MID2	8-17-22	1415	X				X					3	X	
3992-FARM-INF	8-17-22	1420	X				X					3	X	

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Remarks:
EQEDD file name:
Carroll Monrovia-lab report #.17953.
EQEDD.zip
Send invoice to:
ges-invoices@gesonline.com &
include PO #

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: Carroll Monrovia-lab report #.17953.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	8-18-22	0900	Denise Wendling	8-18-22	0900
Denise Wendling	8-18-22	1322	[illegible]	8/18/22	13:22
[illegible]	8/18/22	16:38			
			[illegible]	8/18/22	17:00

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.6 °C

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 410-94986-1

Login Number: 94986

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-99916-1
Client Project/Site: Carroll Monrovia

For:
Groundwater & Environmental Services Inc
1350 Blair Drive
Suite H-2
Odenton, Maryland 21113

Attn: Peter Reichardt

Authorized for release by:
10/10/2022 7:48:51 AM

Amek Carter, Project Manager
(717)556-7252
Loran.Carter@et.eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Amek Carter
Project Manager
10/10/2022 7:48:51 AM

Table of Contents

Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-99916-1

Job ID: 410-99916-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-99916-1

Receipt
The samples were received on 9/29/2022 6:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

Receipt Exceptions
A trip blank was not submitted for analysis with this sample shipment; and was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 524.2_Preserved: Volatile compounds have been detected above the RL for the following sample: 3994-FARM-INF (410-99916-3). Since a field reagent blank/trip blank was not submitted, any potential contamination from the sampling/transport process cannot be assessed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Client Sample ID: 3994-FARM-EFF
Lab Sample ID: 410-99916-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butyl alcohol	2.7	J	25	2.5	ug/L	1		524.2	Total/NA

Client Sample ID: 3994-FARM-MID2
Lab Sample ID: 410-99916-2

No Detections.

Client Sample ID: 3994-FARM-INF
Lab Sample ID: 410-99916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	3.3	cn	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Client Sample ID: 3994-FARM-EFF
Lab Sample ID: 410-99916-1
Date Collected: 09/29/22 08:40
Matrix: Water
Date Received: 09/29/22 18:08

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Benzene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
t-Butyl alcohol	2.7	J	25	2.5	ug/L			10/06/22 15:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Chlorobenzene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Ethylbenzene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Methylene Chloride	ND		0.50	0.20	ug/L			10/06/22 15:38	1
Naphthalene	ND		0.50	0.20	ug/L			10/06/22 15:38	1
Styrene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Toluene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			10/06/22 15:38	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 15:38	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Trichloroethene	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/06/22 15:38	1
Xylenes, Total	ND		0.50	0.10	ug/L			10/06/22 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/06/22 15:38*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*107*		*80 - 120*		*10/06/22 15:38*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Client Sample ID: 3994-FARM-MID2
Lab Sample ID: 410-99916-2
Date Collected: 09/29/22 08:45
Matrix: Water
Date Received: 09/29/22 18:08

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Benzene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
t-Butyl alcohol	ND		25	2.5	ug/L			10/06/22 16:02	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Chlorobenzene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Ethylbenzene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Methylene Chloride	ND		0.50	0.20	ug/L			10/06/22 16:02	1
Naphthalene	ND		0.50	0.20	ug/L			10/06/22 16:02	1
Styrene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Toluene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			10/06/22 16:02	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 16:02	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Trichloroethene	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/06/22 16:02	1
Xylenes, Total	ND		0.50	0.10	ug/L			10/06/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/06/22 16:02*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*105*		*80 - 120*		*10/06/22 16:02*	*1*

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Client Sample ID: 3994-FARM-INF
Lab Sample ID: 410-99916-3
Date Collected: 09/29/22 08:50
Matrix: Water
Date Received: 09/29/22 18:08

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Benzene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
t-Butyl alcohol	ND	cn	25	2.5	ug/L			10/06/22 16:25	1
Carbon tetrachloride	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Chlorobenzene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,2-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,3-Dichlorobenzene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,2-Dichloroethane	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,1-Dichloroethene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
cis-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
trans-1,2-Dichloroethene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,2-Dichloropropane	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Ethyl t-butyl ether	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Ethylbenzene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
di-Isopropyl ether	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Methyl tertiary butyl ether	**3.3**	**cn**	0.50	0.10	ug/L			10/06/22 16:25	1
Methylene Chloride	ND	cn	0.50	0.20	ug/L			10/06/22 16:25	1
Naphthalene	ND	cn	0.50	0.20	ug/L			10/06/22 16:25	1
Styrene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Tetrachloroethene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Toluene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,2,4-Trichlorobenzene	ND	cn	0.50	0.20	ug/L			10/06/22 16:25	1
1,1,1-Trichloroethane	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
1,1,2-Trichloroethane	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Trichloroethene	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Vinyl chloride	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1
Xylenes, Total	ND	cn	0.50	0.10	ug/L			10/06/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*	*cn*	*80 - 120*		*10/06/22 16:25*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*107*	*cn*	*80 - 120*		*10/06/22 16:25*	*1*

Surrogate Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-99916-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB	DCZ										
Lab Sample ID	Client Sample ID	(80-120)	(80-120)										
410-99916-1	3994-FARM-EFF	102	107										
410-99916-2	3994-FARM-MID2	101	105										
410-99916-3	3994-FARM-INF	100 cn	107 cn										
LCS 410-303842/5	Lab Control Sample	103	102										
MB 410-303842/7	Method Blank	100	106										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-99916-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-303842/7
Matrix: Water
Analysis Batch: 303842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Amyl methyl ether	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Benzene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
t-Butyl alcohol	ND		25	2.5	ug/L			10/06/22 14:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Chlorobenzene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,2-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,3-Dichlorobenzene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,2-Dichloroethane	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
cis-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Ethyl t-butyl ether	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Ethylbenzene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
di-Isopropyl ether	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Methyl tertiary butyl ether	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Methylene Chloride	ND		0.50	0.20	ug/L			10/06/22 14:50	1
Naphthalene	ND		0.50	0.20	ug/L			10/06/22 14:50	1
Styrene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Tetrachloroethene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Toluene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			10/06/22 14:50	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 14:50	1
1,1,2-Trichloroethane	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Trichloroethene	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/06/22 14:50	1
Xylenes, Total	ND		0.50	0.10	ug/L			10/06/22 14:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/06/22 14:50*	*1*
1,2-Dichlorobenzene-d4 (Surr)	*106*		*80 - 120*		*10/06/22 14:50*	*1*

Lab Sample ID: LCS 410-303842/5
Matrix: Water
Analysis Batch: 303842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
t-Amyl methyl ether	5.00	5.28		ug/L		106	70 - 130
Benzene	5.00	5.09		ug/L		102	70 - 130
t-Butyl alcohol	50.0	57.5		ug/L		115	70 - 130
Carbon tetrachloride	5.00	5.64		ug/L		113	70 - 130
Chlorobenzene	5.00	5.14		ug/L		103	70 - 130
1,2-Dichlorobenzene	5.00	5.04		ug/L		101	70 - 130
1,3-Dichlorobenzene	5.00	5.01		ug/L		100	70 - 130
1,2-Dichloroethane	5.00	4.96		ug/L		99	70 - 130
1,1-Dichloroethene	5.00	5.17		ug/L		103	70 - 130
cis-1,2-Dichloroethene	5.00	5.21		ug/L		104	70 - 130
trans-1,2-Dichloroethene	5.00	5.00		ug/L		100	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-303842/5
Matrix: Water
Analysis Batch: 303842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	5.00	5.25		ug/L		105	70 - 130
Ethyl t-butyl ether	5.00	4.99		ug/L		100	70 - 130
Ethylbenzene	5.00	5.07		ug/L		101	70 - 130
di-Isopropyl ether	5.00	4.97		ug/L		99	70 - 130
Methyl tertiary butyl ether	5.00	5.11		ug/L		102	70 - 130
Methylene Chloride	5.00	5.12		ug/L		102	70 - 130
Naphthalene	5.00	5.21		ug/L		104	70 - 130
Styrene	5.00	5.21		ug/L		104	70 - 130
Tetrachloroethene	5.00	4.90		ug/L		98	70 - 130
Toluene	5.00	4.98		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	5.00	5.19		ug/L		104	70 - 130
1,1,1-Trichloroethane	5.00	5.41		ug/L		108	70 - 130
1,1,2-Trichloroethane	5.00	5.18		ug/L		104	70 - 130
Trichloroethene	5.00	4.99		ug/L		100	70 - 130
Vinyl chloride	2.00	1.96		ug/L		98	70 - 130
Xylenes, Total	15.0	15.3		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
1,2-Dichlorobenzene-d4 (Surr)	*102*		*80 - 120*

QC Association Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

GC/MS VOA

Analysis Batch: 303842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-99916-1	3994-FARM-EFF	Total/NA	Water	524.2	
410-99916-2	3994-FARM-MID2	Total/NA	Water	524.2	
410-99916-3	3994-FARM-INF	Total/NA	Water	524.2	
MB 410-303842/7	Method Blank	Total/NA	Water	524.2	
LCS 410-303842/5	Lab Control Sample	Total/NA	Water	524.2	

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-99916-1

Client Sample ID: 3994-FARM-EFF

Lab Sample ID: 410-99916-1

Date Collected: 09/29/22 08:40
Matrix: Water
Date Received: 09/29/22 18:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	303842	UJML	ELLE	10/06/22 15:38

Client Sample ID: 3994-FARM-MID2

Lab Sample ID: 410-99916-2

Date Collected: 09/29/22 08:45
Matrix: Water
Date Received: 09/29/22 18:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	303842	UJML	ELLE	10/06/22 16:02

Client Sample ID: 3994-FARM-INF

Lab Sample ID: 410-99916-3

Date Collected: 09/29/22 08:50
Matrix: Water
Date Received: 09/29/22 18:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	303842	UJML	ELLE	10/06/22 16:25

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	1,3-Dichlorobenzene
524.2		Water	di-Isopropyl ether
524.2		Water	Ethyl t-butyl ether
524.2		Water	Methyl tertiary butyl ether
524.2		Water	Naphthalene
524.2		Water	t-Amyl methyl ether
524.2		Water	t-Butyl alcohol

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: Carroll Monrovia

Job ID: 410-99916-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	ELLE

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Groundwater & Environmental Services Inc
Job ID: 410-99916-1
Project/Site: Carroll Monrovia

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-99916-1	3994-FARM-EFF	Water	09/29/22 08:40	09/29/22 18:08
410-99916-2	3994-FARM-MID2	Water	09/29/22 08:45	09/29/22 18:08
410-99916-3	3994-FARM-INF	Water	09/29/22 08:50	09/29/22 18:08

Environmental Analysis Request

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

410-99916 Chain of Custody

Client: Groundwater & Env. Services, Inc.	
Project Name/#: Carroll Monrovia	Site ID #:
Project Manager: Peter Reichardt	P.O. #: 0403420/06/209
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3726	Quote #:
State where sample(s) were collected: 11791 Fingerboard Rd, Monrovia, MD	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Water: Ground	Water: NPDES	Water: Surface	Other:	Total # of Containers	Analyses Requested: Target VOCs List plus oxygenates and Napthalene (524.2)	Preservation Codes: H
3994-FARM-EFF	9/29/22	0840	x					x				3	x	
3994-FARM-MID2	9/29/22	0845	x					x				3	x	
3994-FARM-INF	9/29/22	0850	x					x				3	x	

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

SF #: _____

SCR #: _____

Remarks

EQEDD file name:
Carroll Monrovia-lab report #.17953.EQEDD.zip

Send invoice to:
ges-invoices@gesonline.com & include PO #

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: midatlantic@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: Carroll Monrovia-lab report #.17953.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	9-29-22	1030	Denise Woodring	9-29-22	1030
Denise Woodring	9-29-22	1515	[illegible]	9/29/22	15:15
[illegible]	9/29/22	1743			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.7 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0614

C3

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 410-99916-1

Login Number: 99916

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

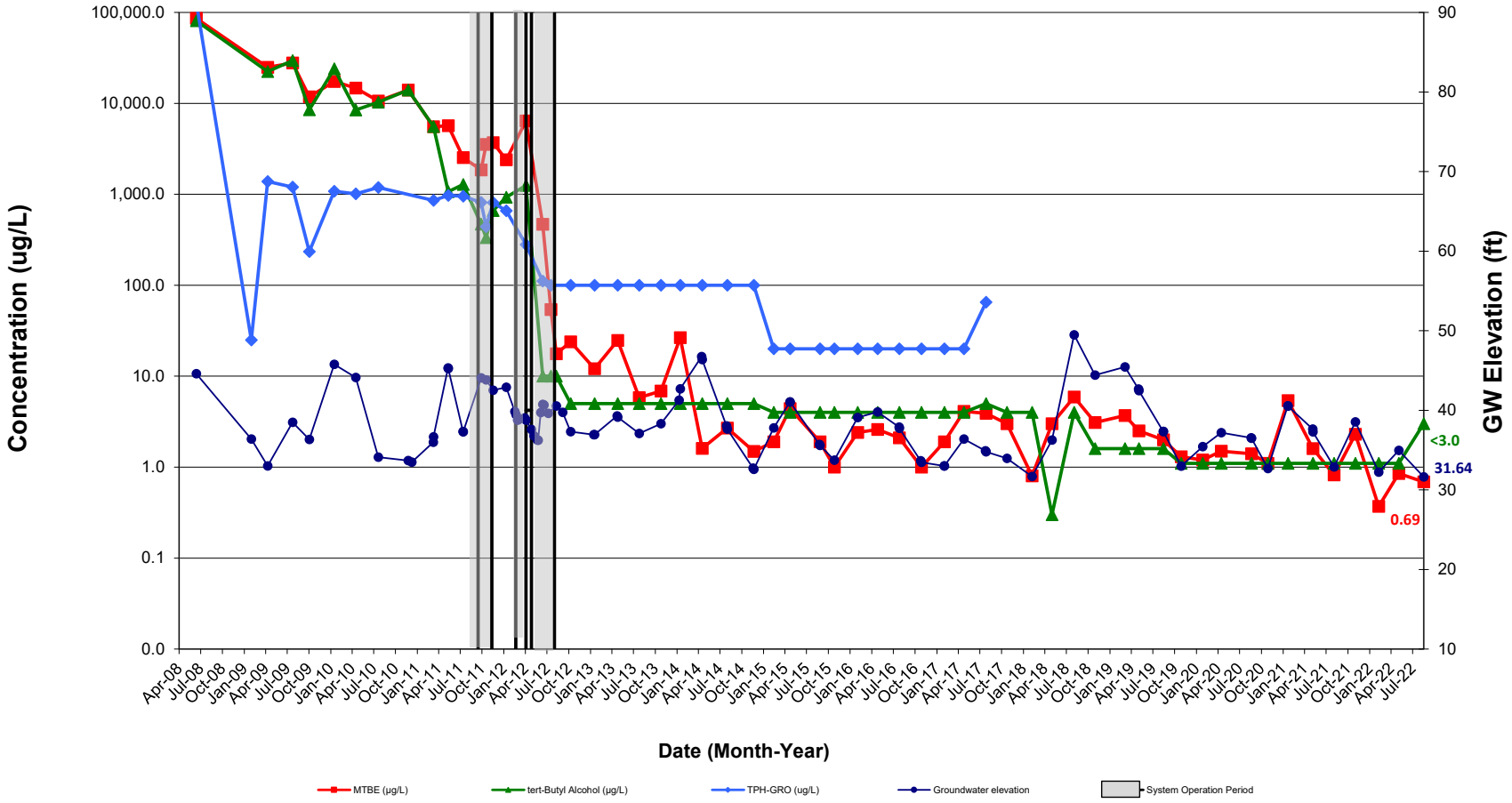
APPENDIX D

Groundwater Monitoring Graphs

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-7



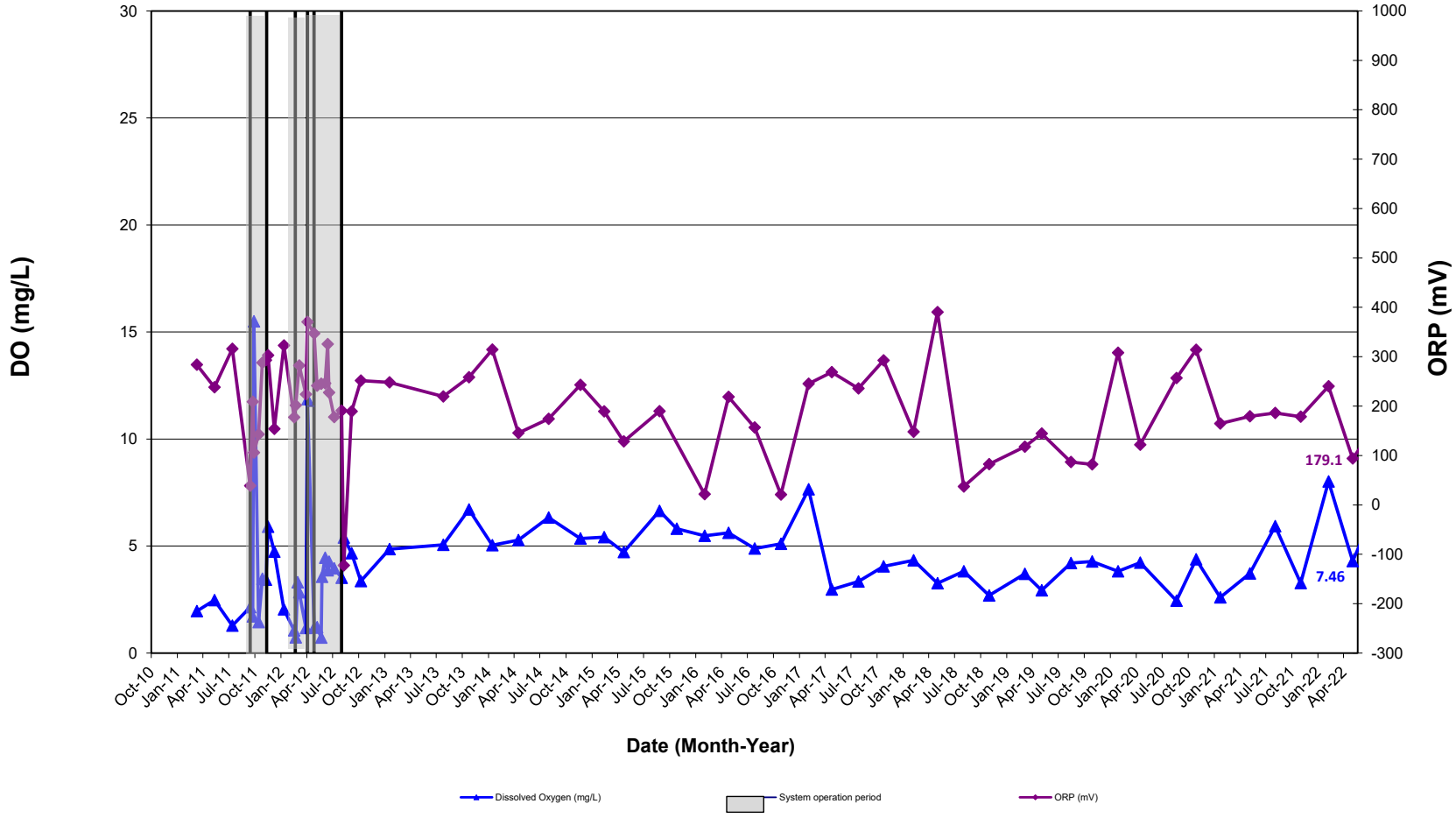
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-7

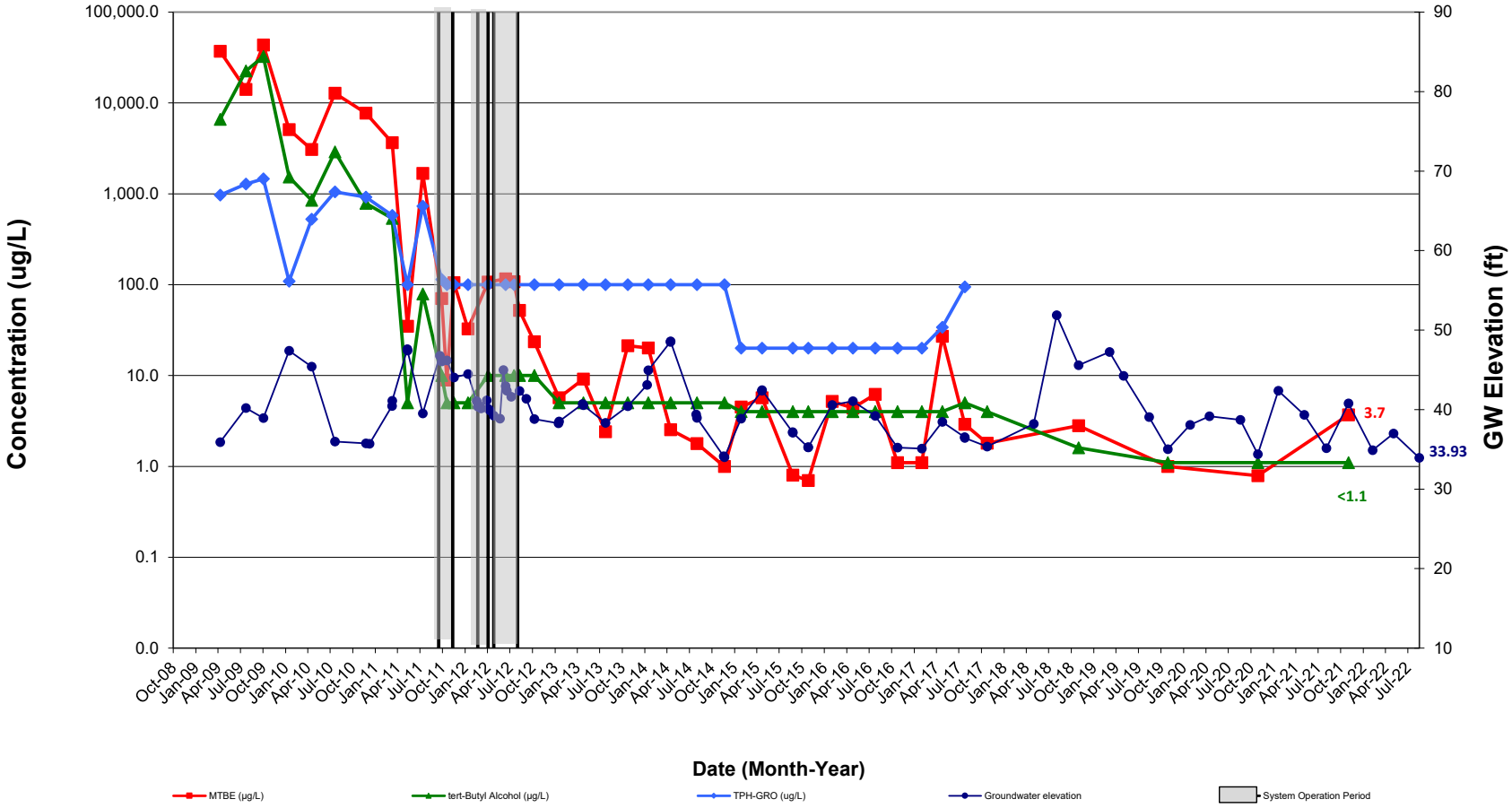


Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-13



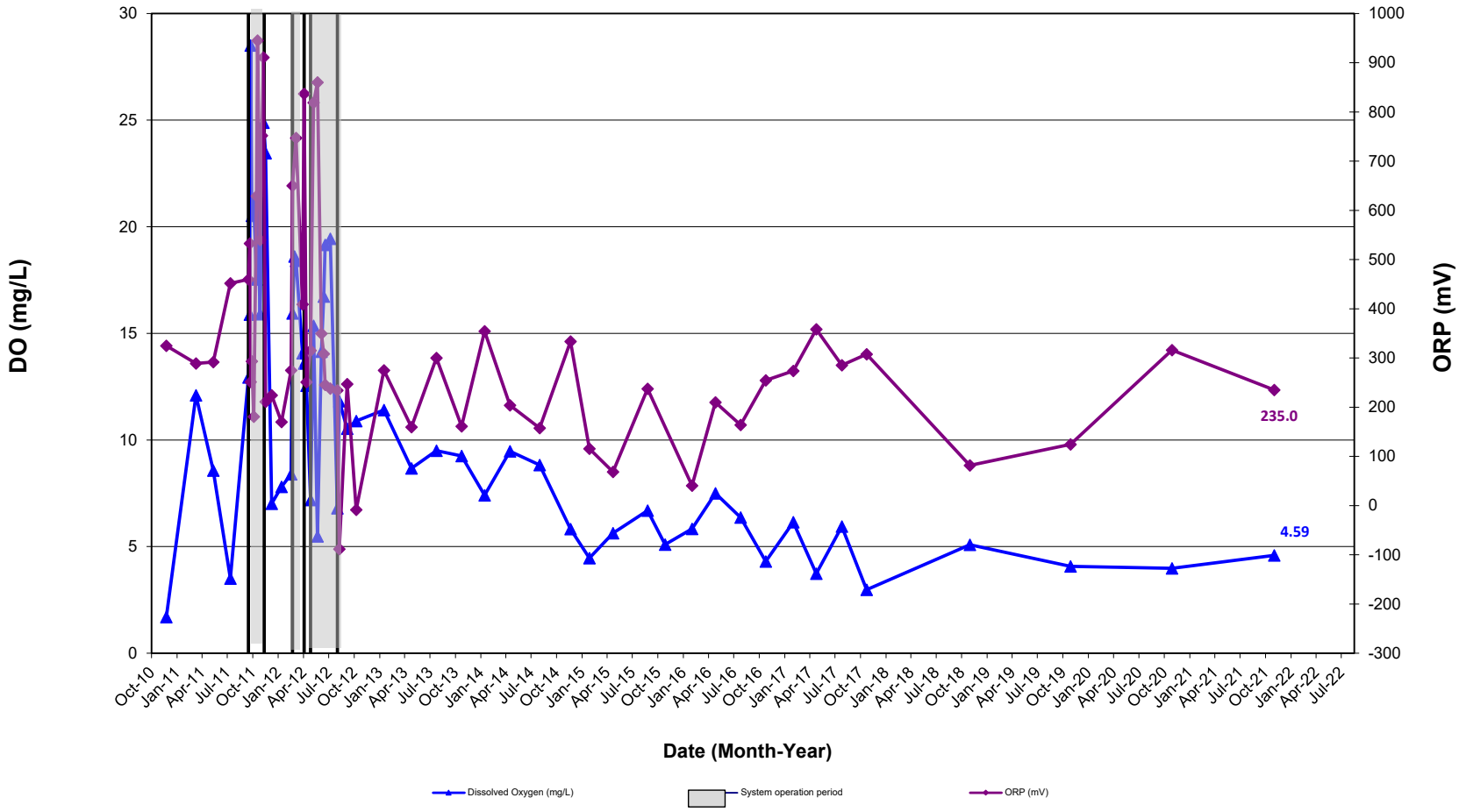
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-13

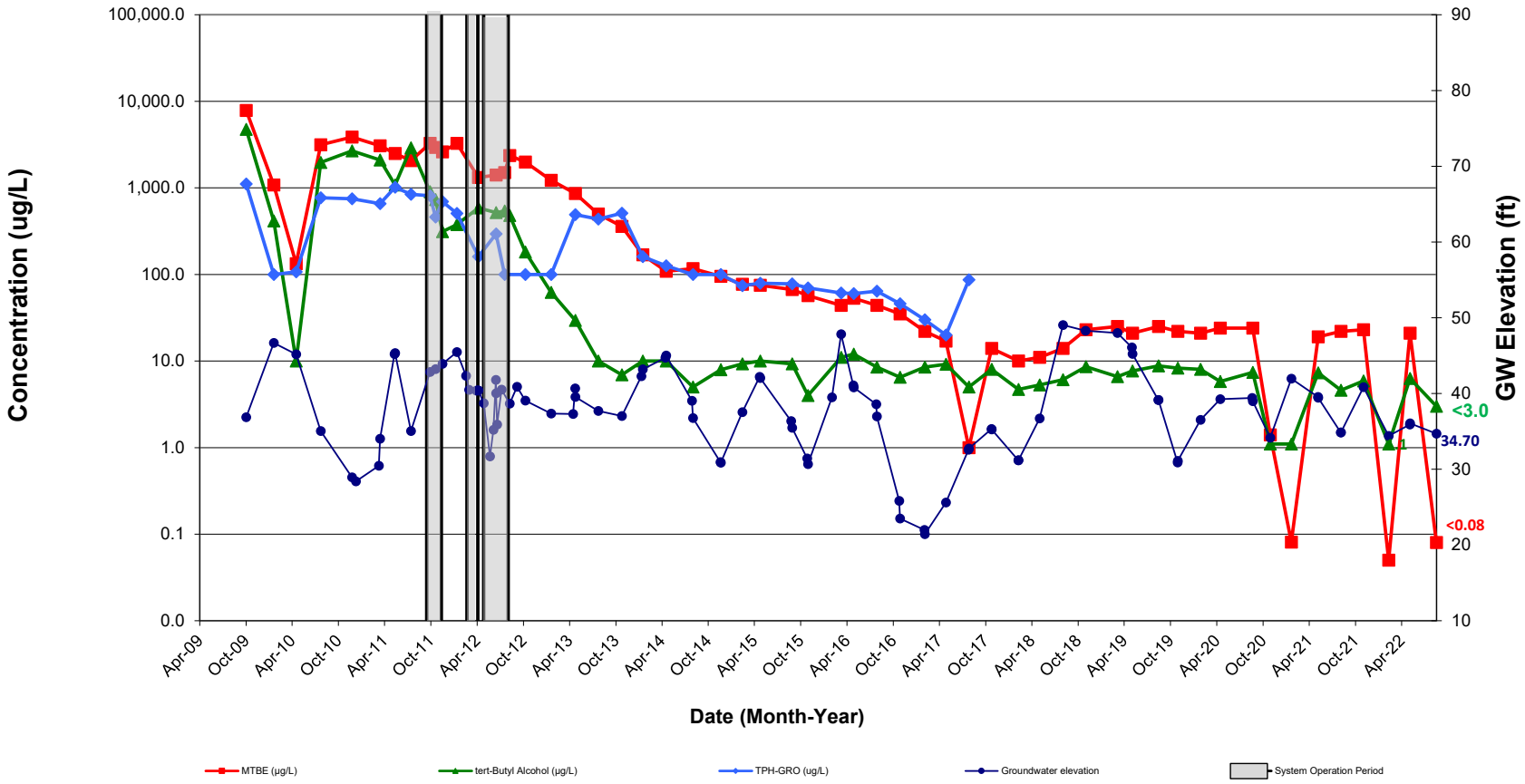


Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-14D



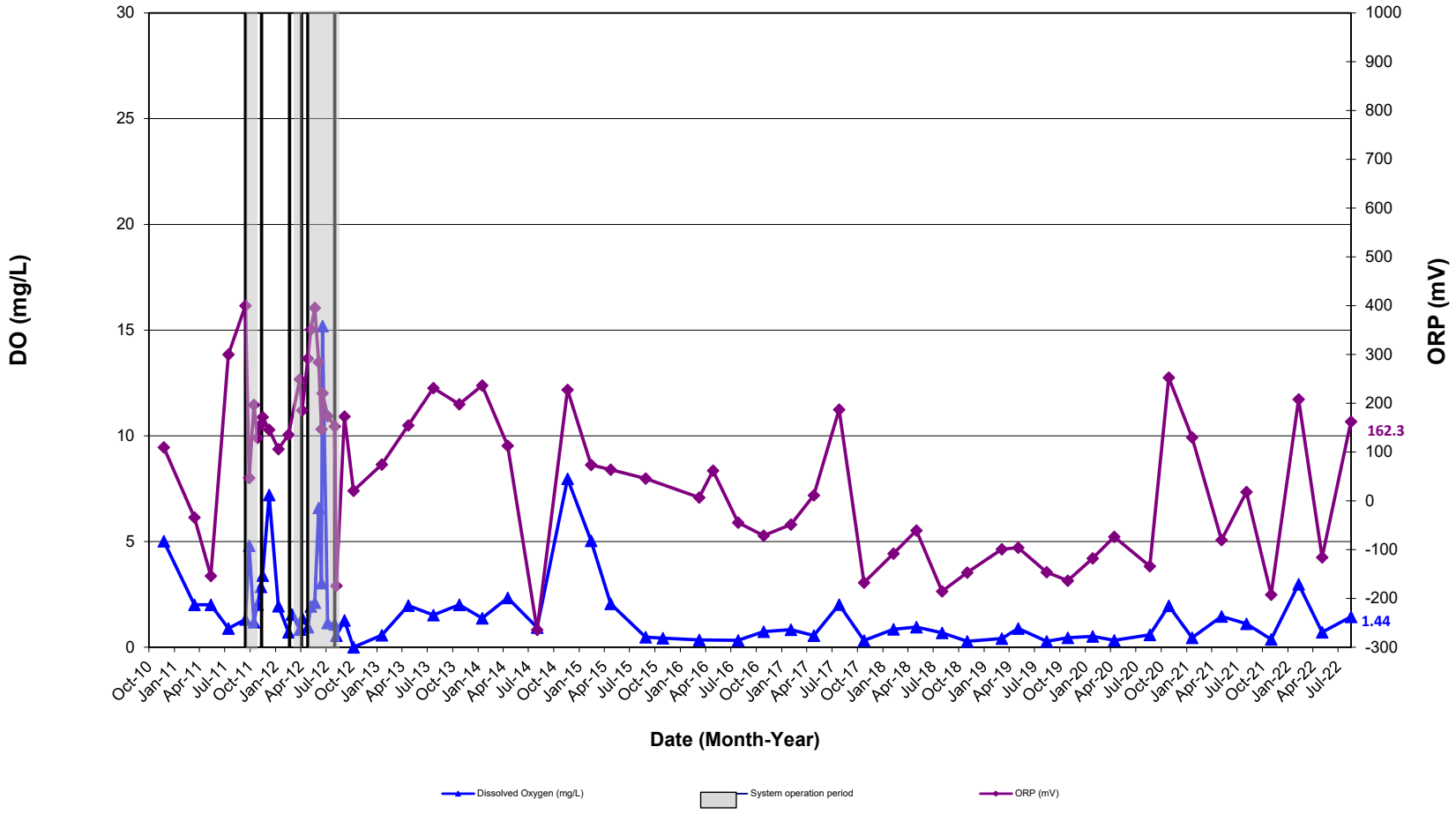
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-14D

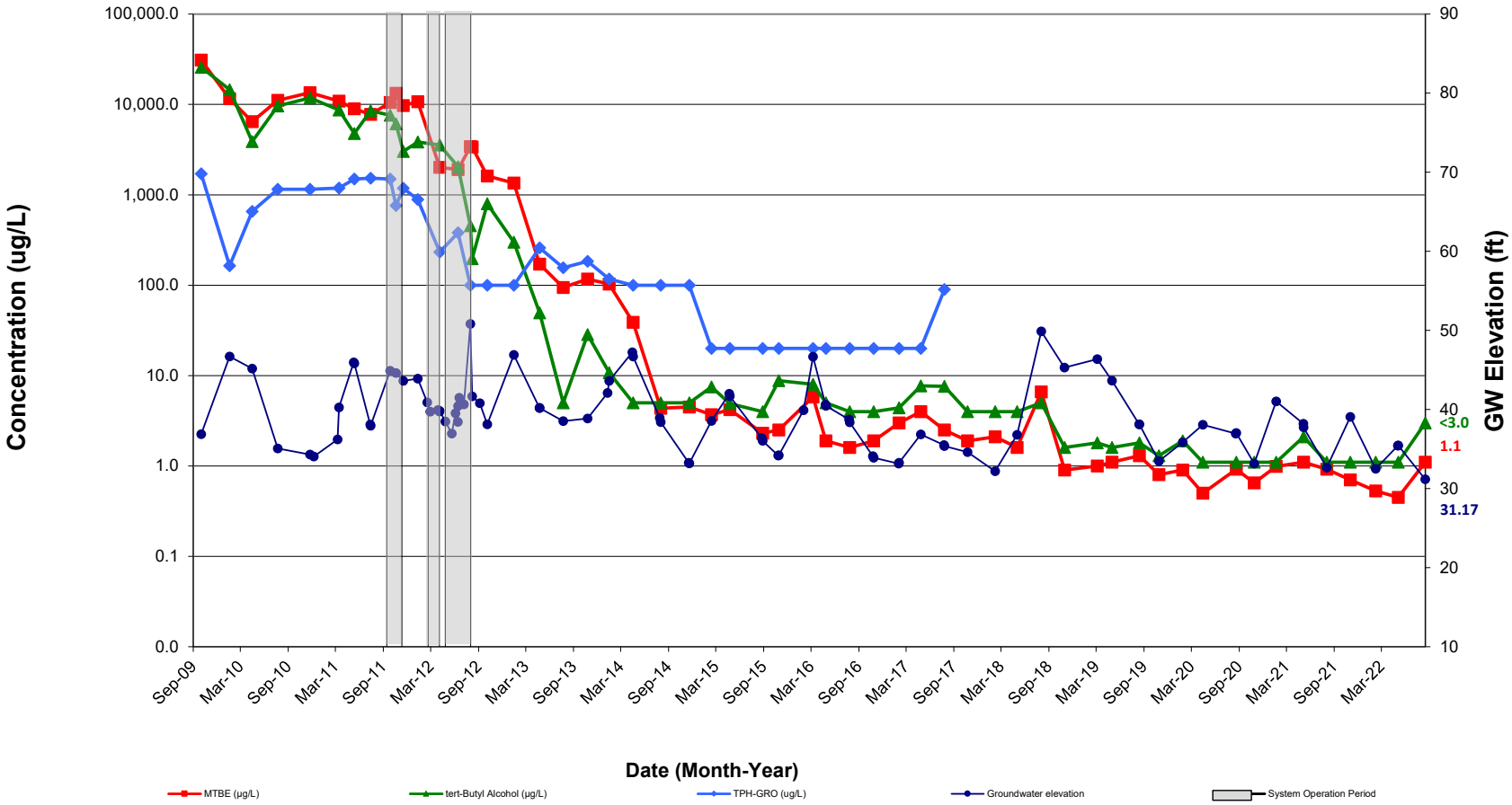


Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-17



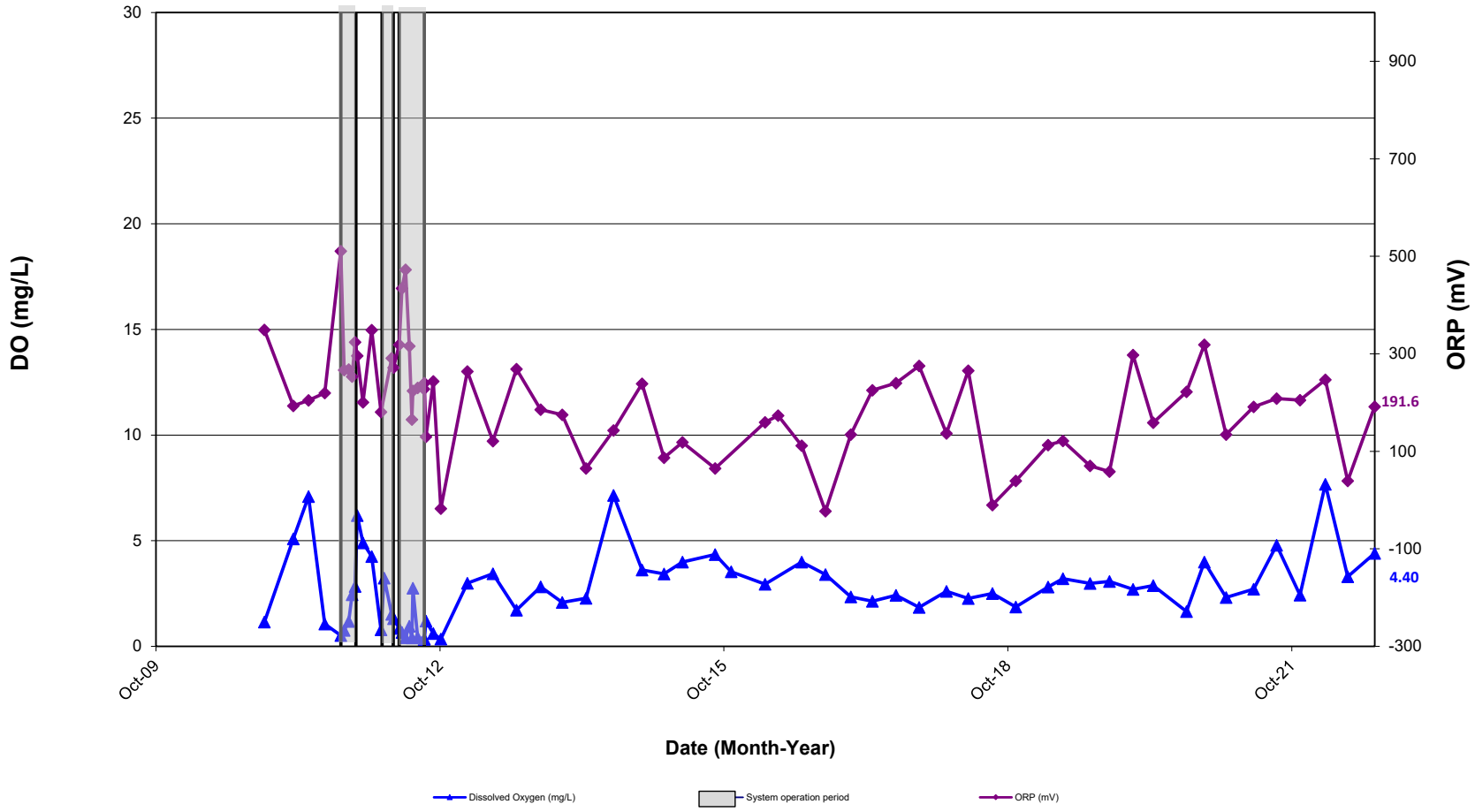
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

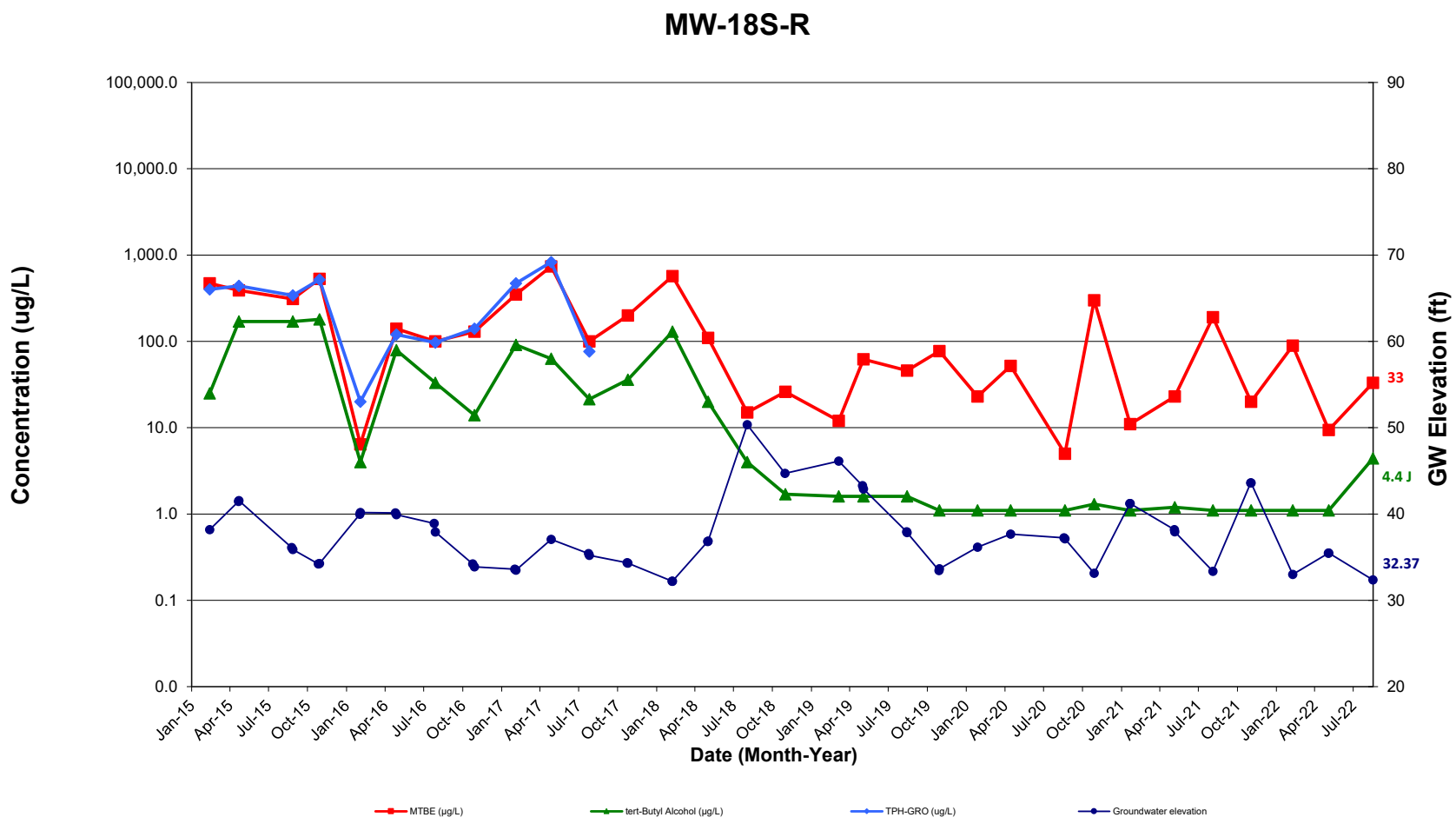
Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-17



GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

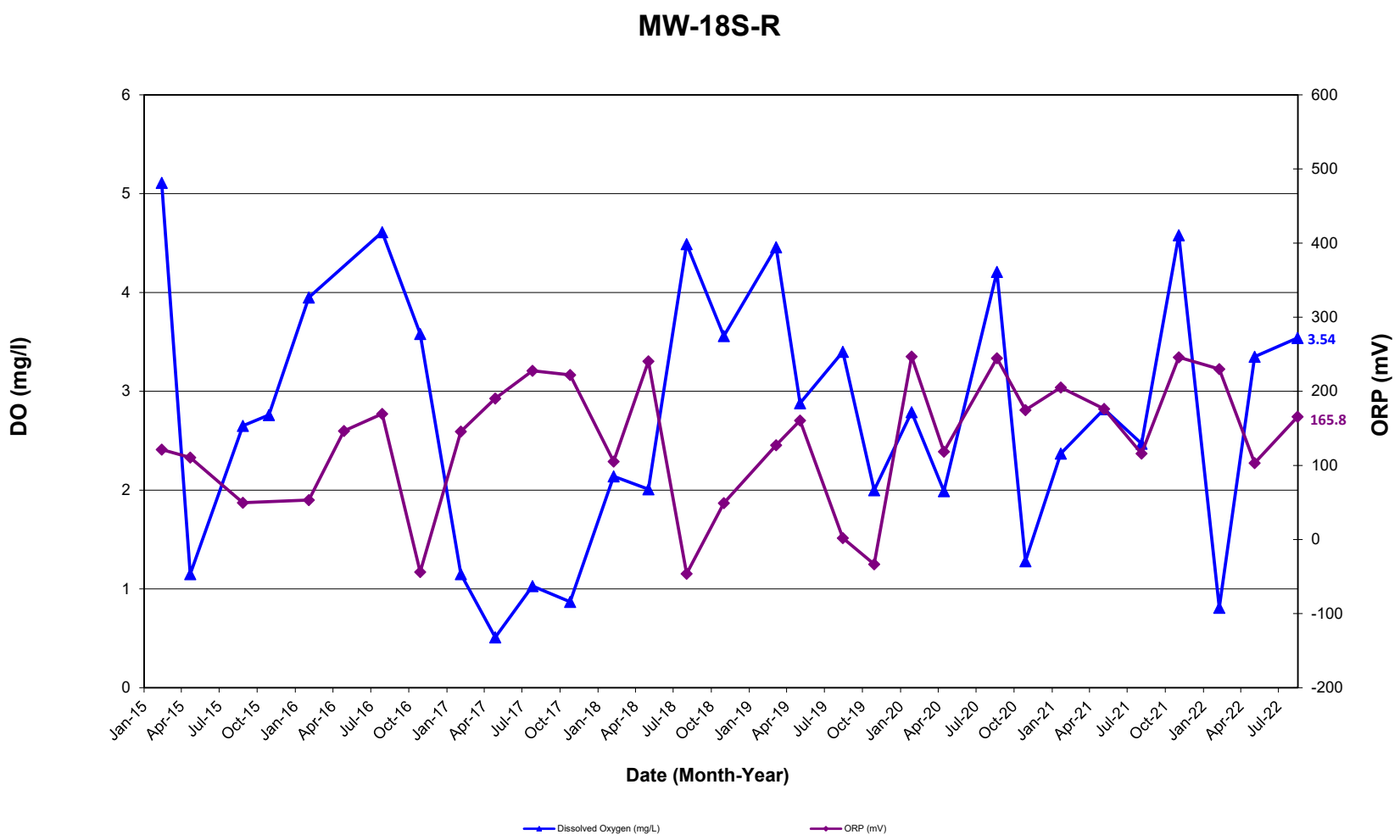


Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

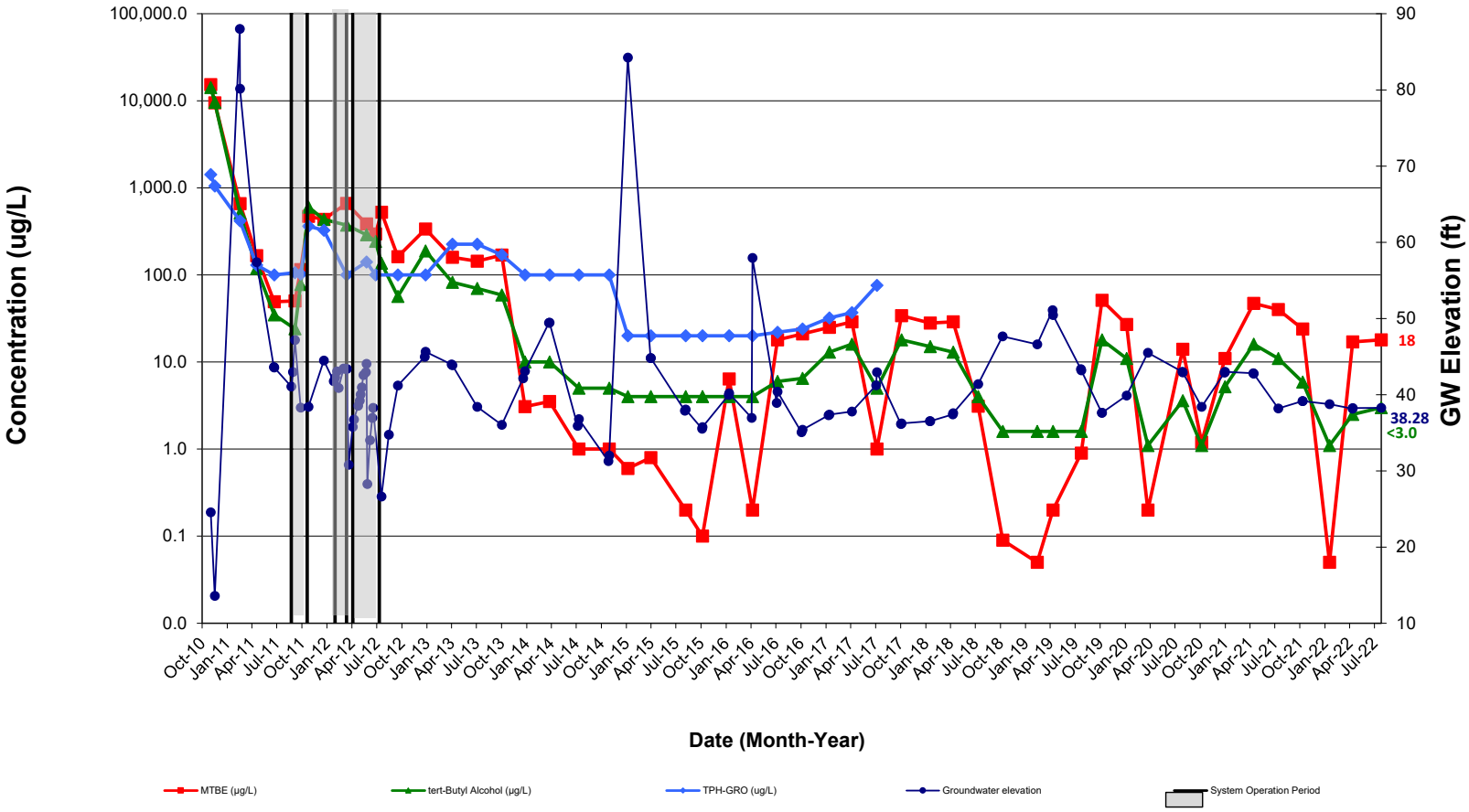


Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-18D



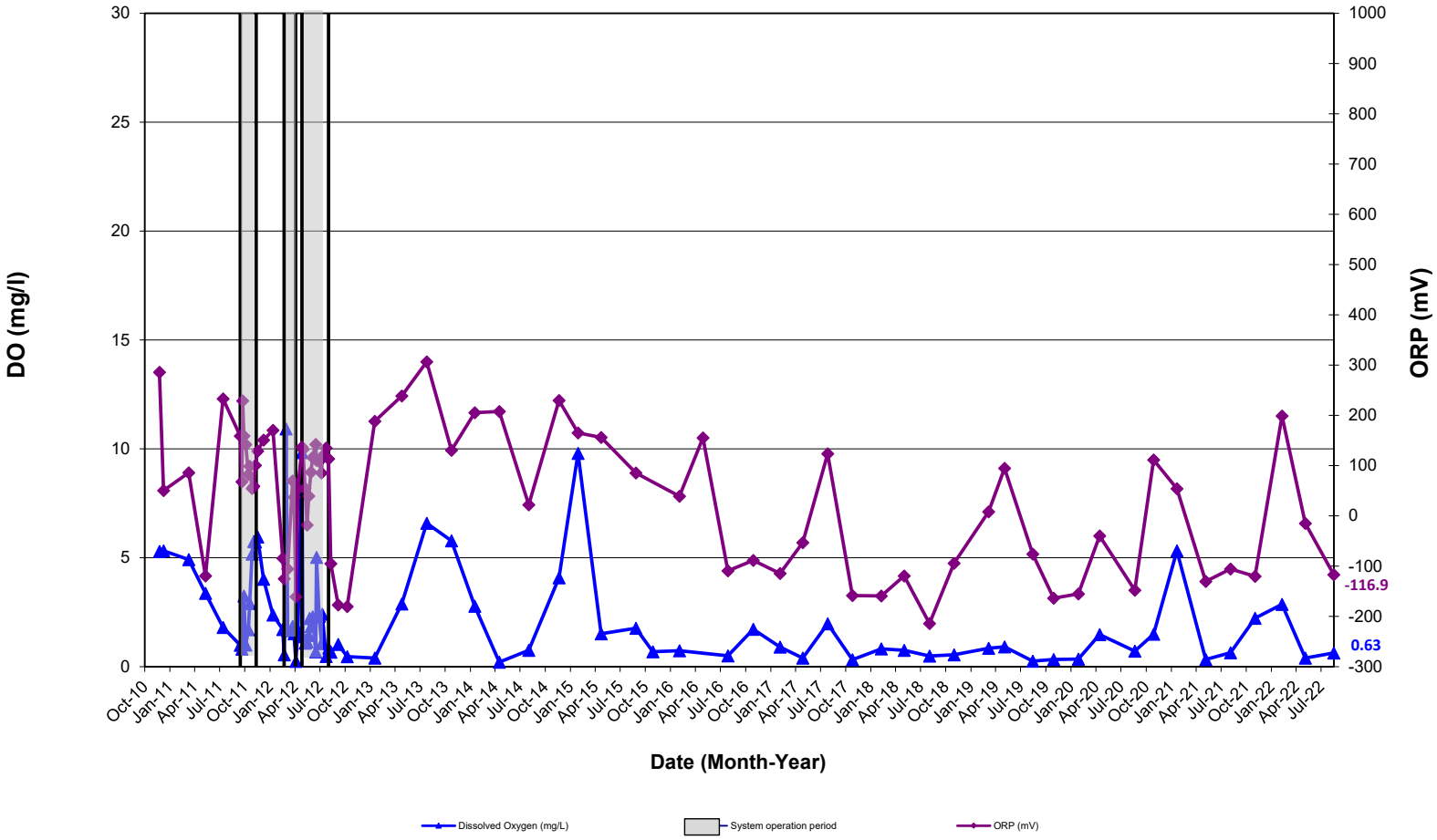
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix D

GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

MW-18D



APPENDIX E

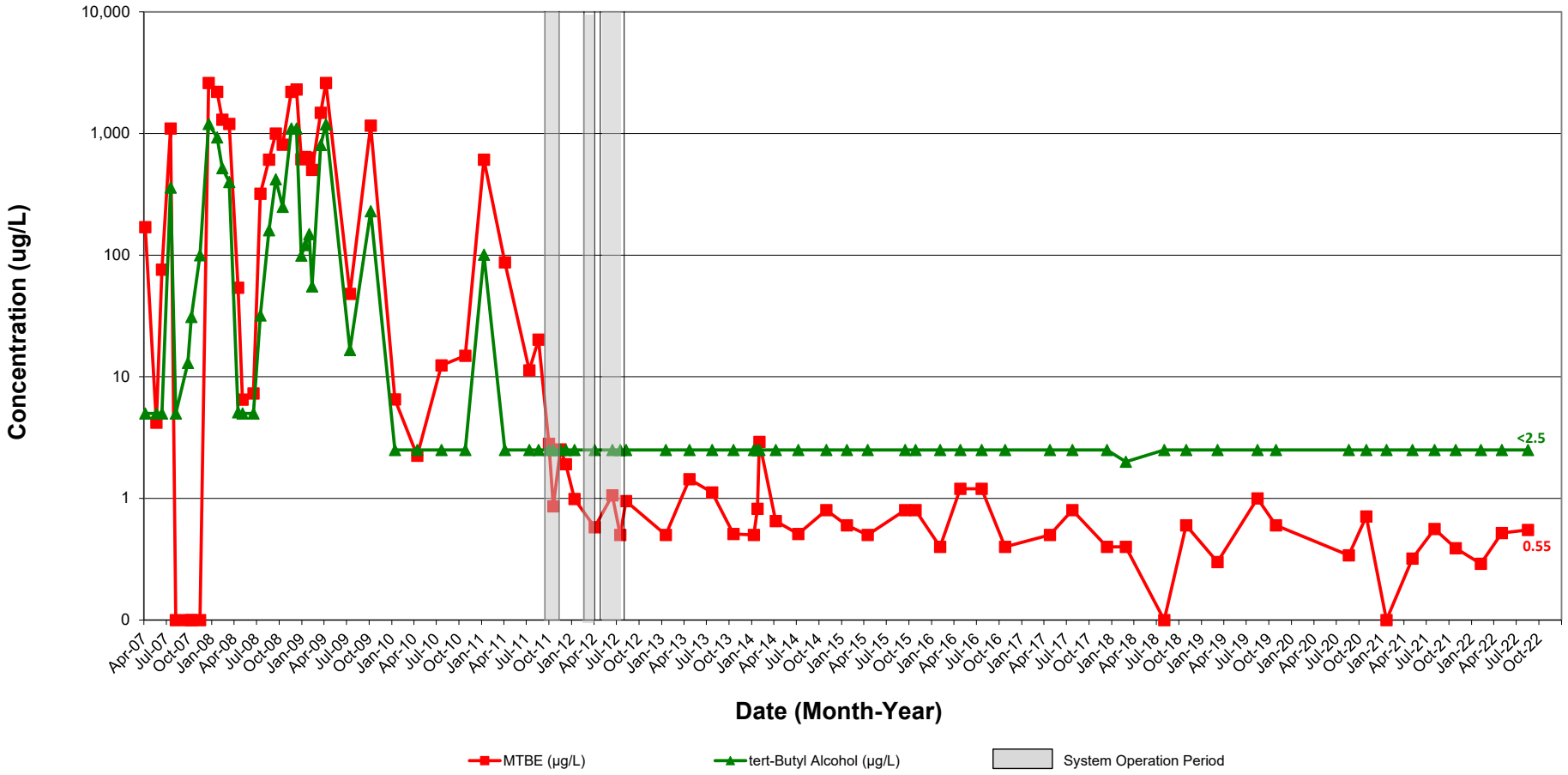
Supply Well Monitoring Graphs

Appendix E

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

3923-ROSE-INF

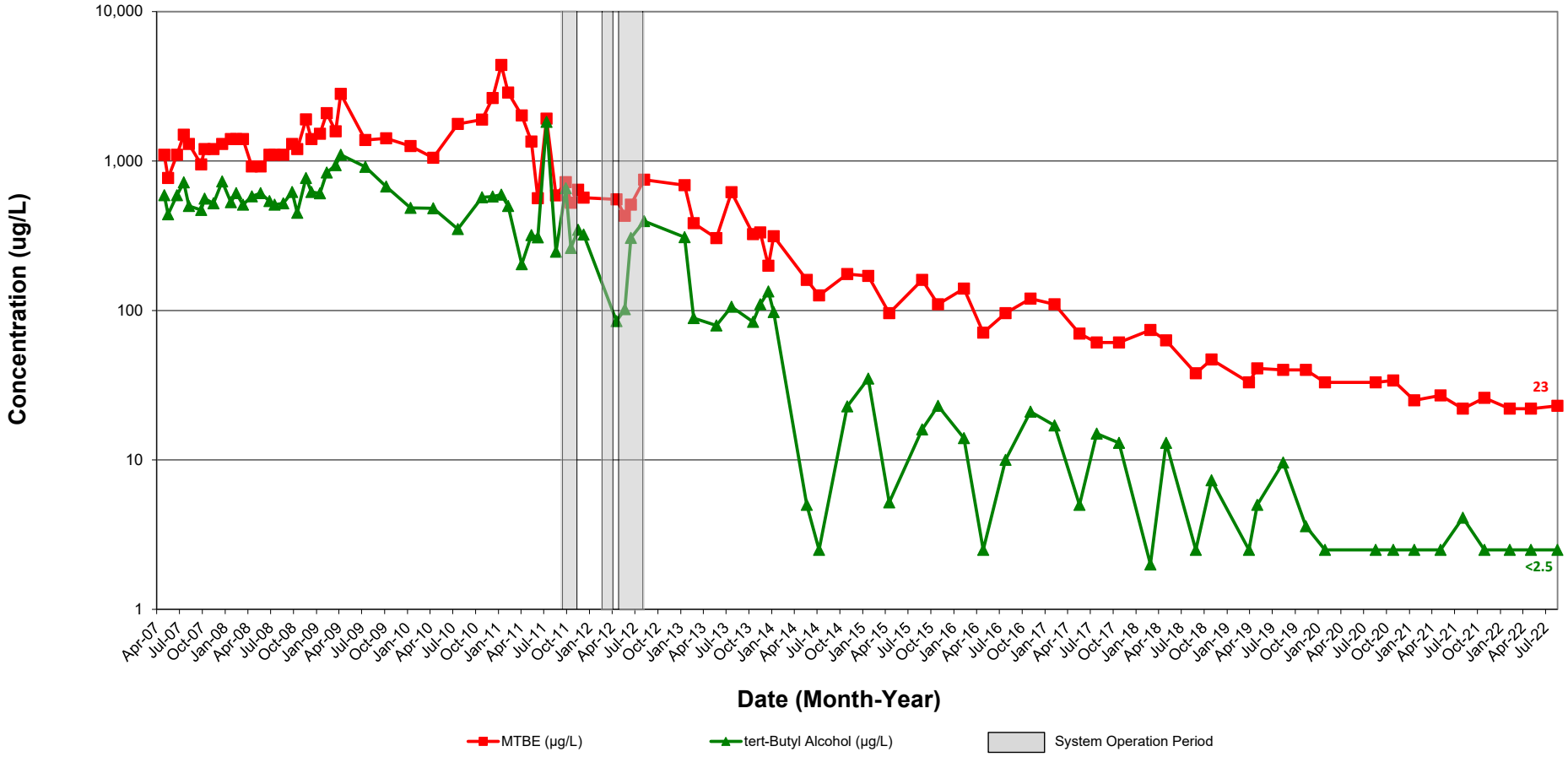


Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

3990-FARM-INF

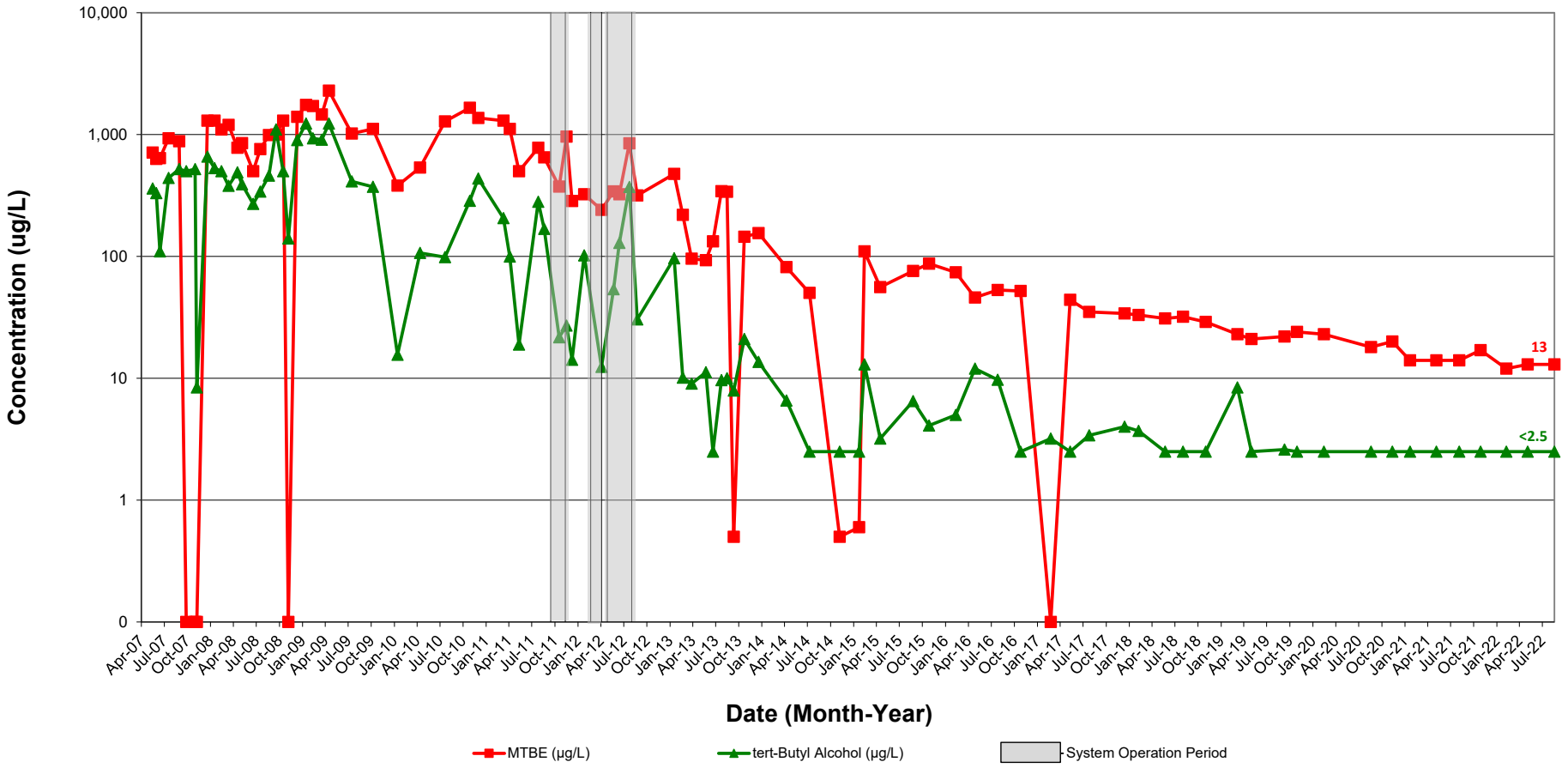


Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

3992-FARM-INF



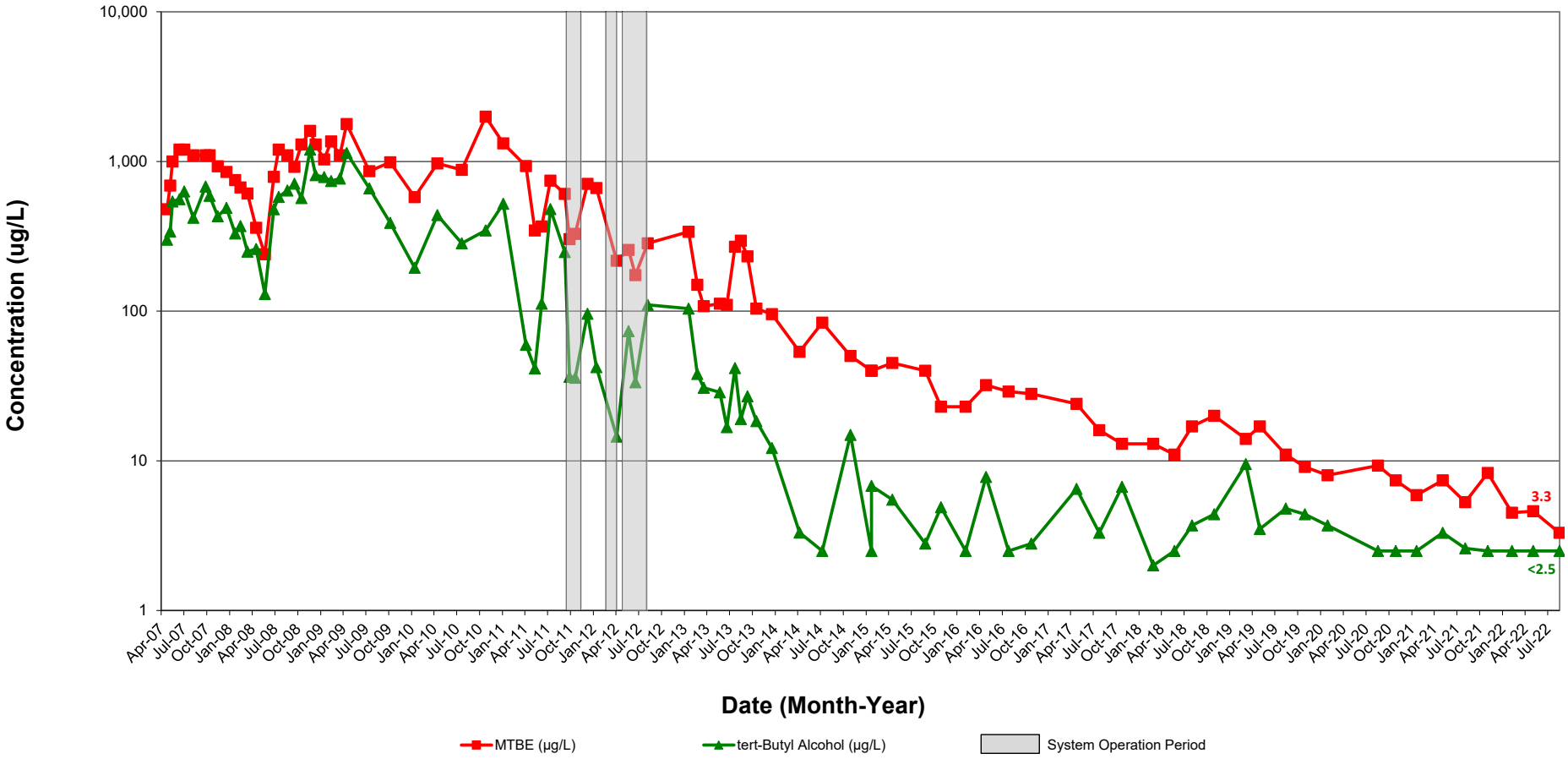
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix E

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

3994-FARM-INF



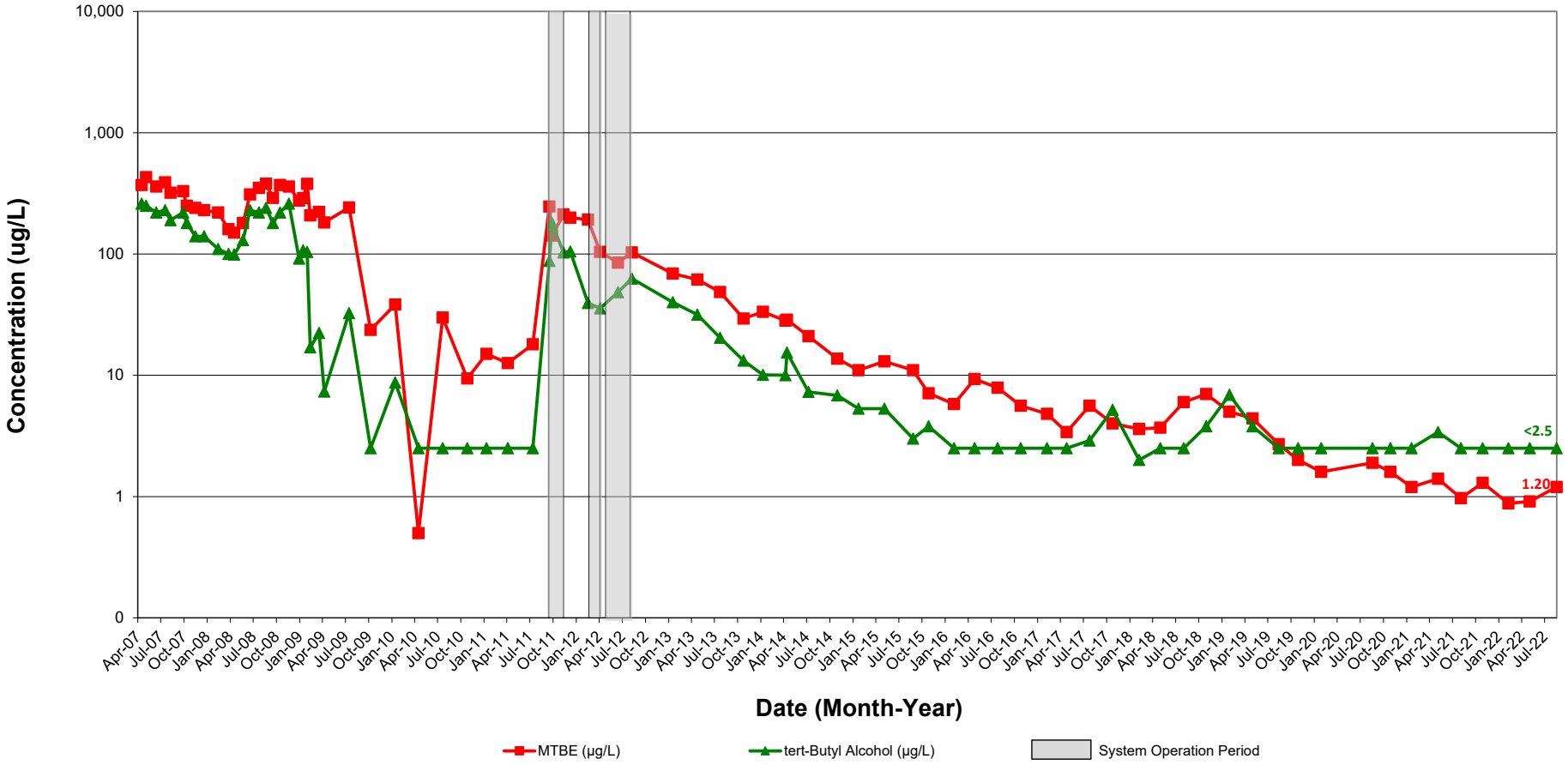
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix E

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

3996-FARM-INF

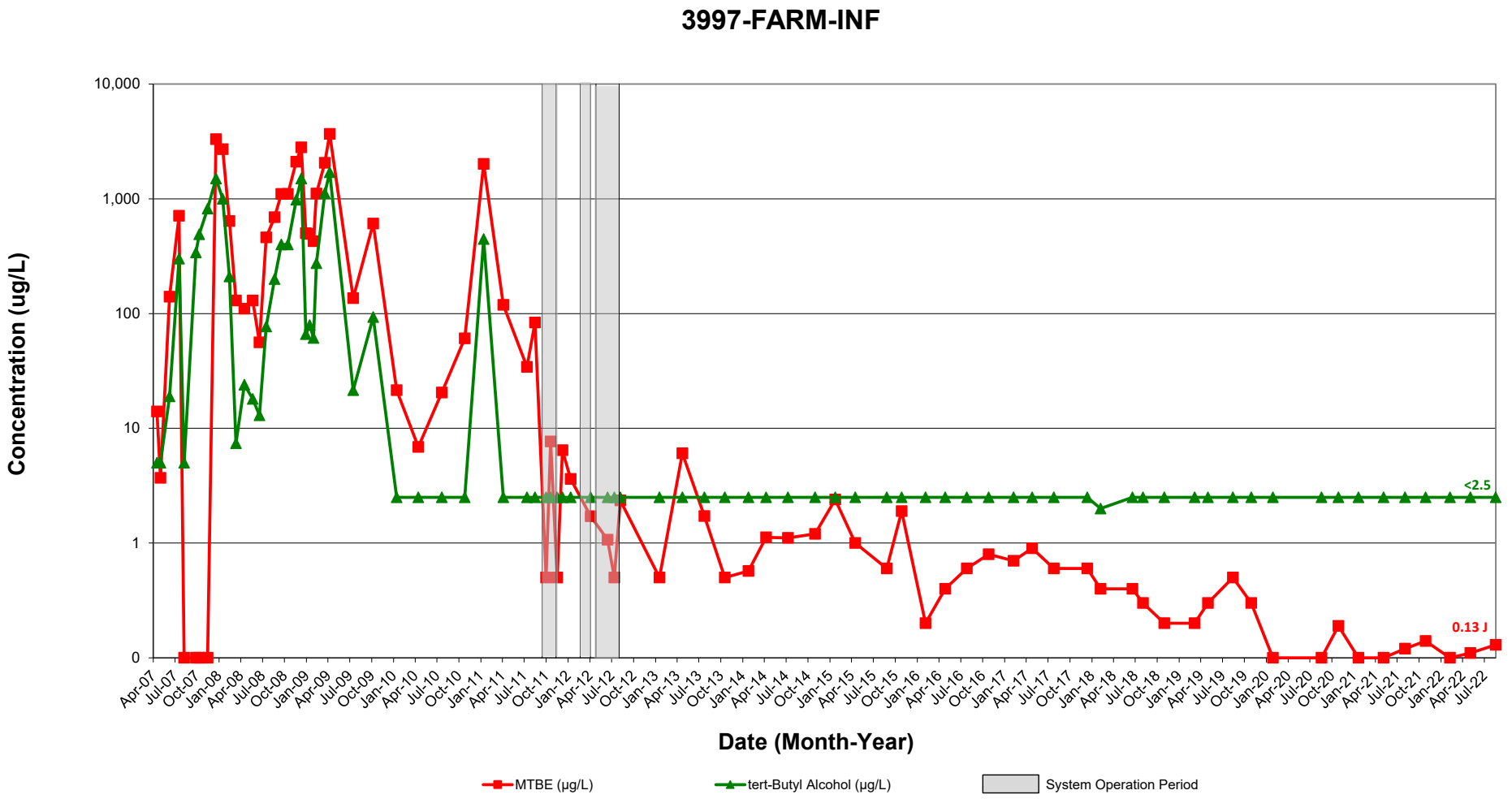


Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix E

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD



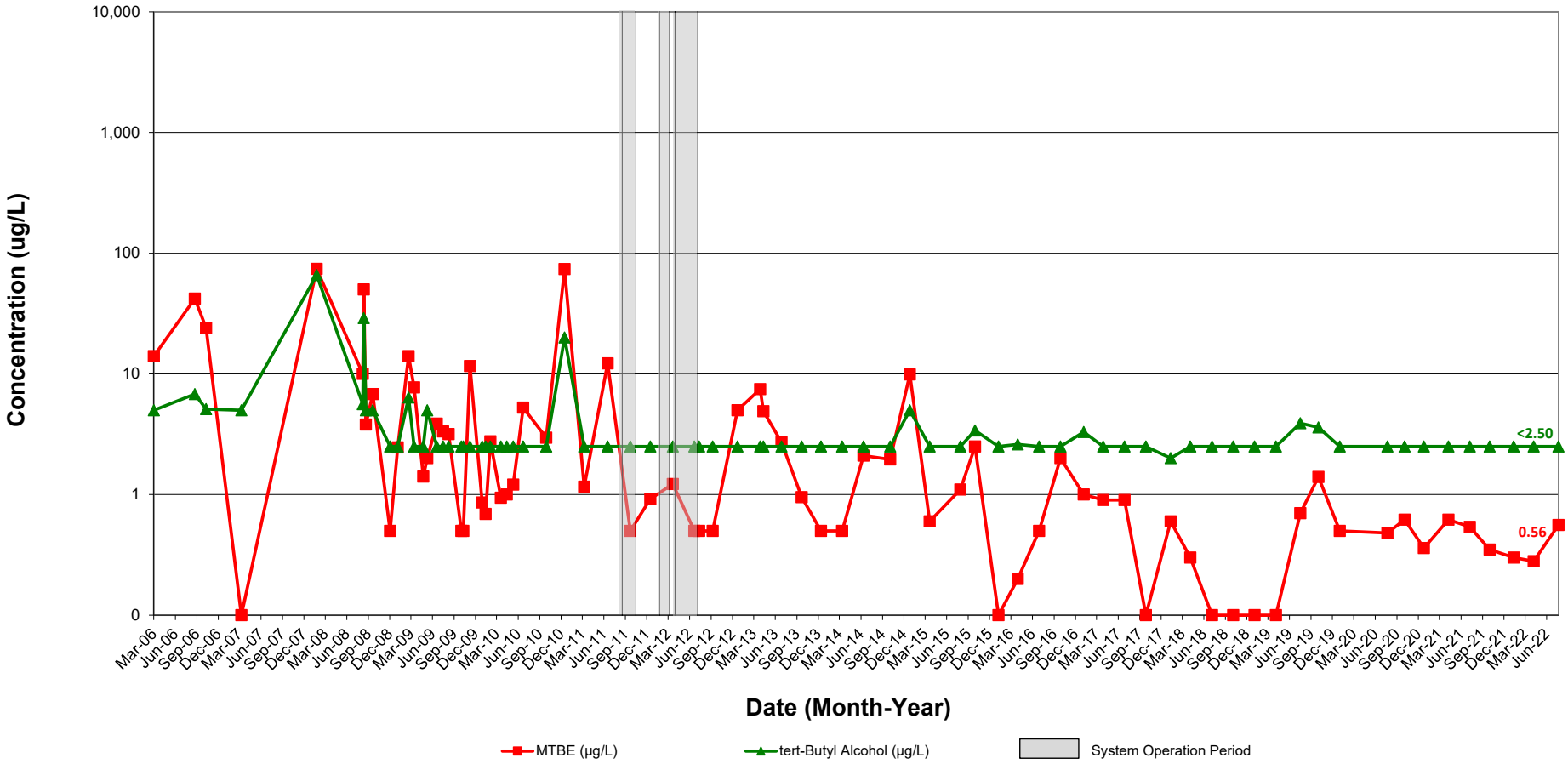
Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND<100 µg/L, 100 µg/L is plotted).

Appendix E

RESIDENTIAL SUPPLY WELL GROUNDWATER MONITORING GRAPHS

Carroll - Monrovia BP/Former Green Valley Citgo
11791 Fingerboard Rd
Monrovia, MD

GVP-INF



Note: 1. Non-detect results are plotted at the method detection/reporting limit (i.e., for TPH-GRO = ND100 µg/L, 100 µg/L is plotted).