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HEMPHILL ROAD INDUSTRIAL LAND

2023 ANNUAL GROUNDWATER SAMPLING REPORT

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HEMPHILL ROAD INDUSTRIAL LAND
2023 ANNUAL GROUNDWATER SAMPLING REPORT

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1. INTRODUCTION

This report serves as a summary for the annual 2023 groundwater sampling event conducted in April and May 2023 at the Revitalizing Auto Communities Environmental Response (RACER) Trust Hemphill Road Industrial Land (HRIL) facility located in Burton, Michigan (Site). Annual groundwater sampling was conducted to document groundwater quality for the Site and allow for evaluation of possible concentration trends.

The results from this event support the conclusions and recommendations in the 2019 draft No Further Action (NFA) Report, which was submitted to EGLE on November 28, 2019.

2. GROUNDWATER SAMPLING

The annual 2023 groundwater sampling was performed utilizing the following sampling protocols. During this event samples were also collected for Per- and polyfluoroalkyl substances (PFAS) analysis. Details of the PFAS sampling will be provided in a separate report.

Prior to sampling, water level measurements were collected from monitoring wells at the Site and the offsite wells. Monitoring well locations are shown on **Figure 1**. Monitoring well construction details are listed on **Table 1** and groundwater elevation data are included on **Table 2**. The groundwater elevations observed during the sampling events are within the historical range of static groundwater measurements for the Site.

The shallow and deep groundwater elevations are depicted on **Figure 2** (Shallow) and **Figure 3** (Deep), respectively. Groundwater in the shallow zone appears to flow is predominantly toward the east near OBG MW-7S and more southeast in the southern portion of the Site as shown on **Figure 2**. Groundwater in the drift (deep) unit appears to flow in a northerly direction as shown on **Figure 3**.

Groundwater samples for the annual 2023 sampling event were collected between April 25, 2023 and May 1, 2023. Samples were collected from nine on-site monitoring wells and five off-site monitoring wells. The nine on-site monitoring wells are: OBG MW-1S, OBG MW-2S, OBG MW-2D, OBG MW-3, OBG MW-5S (screened in fill material), OBG MW-6S, OBG MW-6D, OBG MW-7S (screened [sand pack] in fill material), and OBG MW-7D. The five off-site monitoring wells are: OBG OS-MW-1, OBG OS-MW-2, OBG OS-MW-3, OBG OS-MW-4, and OBG OS-MW-5 (all of which are screened in fill material).

The following wells were not sampled as part of the routine annual sampling event. Samples were not collected from wells MW-401 and MW-403 (installed by others) because the screen lengths of these wells are greater than 10 ft in length. Groundwater samples were not collected from OBG MW-4S and OBG MW-10 because of the presence of Light Non-Aqueous Phase Liquid (LNAPL) in these wells. Also, samples were not collected from wells OBG MW-8, OBG MW-9, and OBG MW-11 as these were installed in June 2016 for LNAPL assessment.

Due to the viscous LNAPL coating the interface probe of the measuring instrument, it was difficult to acquire an accurate measurement of the LNAPL thickness in monitoring wells MW-401, OBG MW-4S, and OBG MW-10. LNAPL was also observed on the water level probe at OBG MW-5S during low flow sampling. LNAPL was not detected in monitoring wells MW-403, OBG MW-8, OBG MW-9, and OBG MW-11, which are screened in waste fill. A summary of the LNAPL gauging results are presented in **Table 3**.

Low flow groundwater sampling was performed in accordance with USEPA, *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (EPA/540/S-95/504) and the USEPA Region 1 (July 30, 1996, Revision 4) *Low Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells*.

Low-flow groundwater sampling was performed using high density polyethylene sample tubing lowered approximately to the midpoint of the well screen and connected to a peristaltic pump. The tubing was then attached to a flow-through cell attached to a physical parameter measurement instrument capable of measuring temperature, conductivity, pH, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Turbidity was measured with a separate turbidity meter.

The DO probe on one of the water quality meters did not appear to be working while monitoring at OBG MW-7D and after attempts to recalibrate/repair the unit it was subsequently replaced with a different meter by the rental company.

Once the pump was turned on, the well was purged at a rate that produced less than 0.3 ft of drawdown in the well, except for wells OBG MW-1S, OBG MW-2S, OBG MW-5S, OBG MW-6S/D, OBG MW-7S, OBG OS-MW-1, and OBG OS-MW-2. For these wells, the purge rate was maintained at a maximum of 100 milliliters per minute [ml/min]; however, a drawdown of more than 0.3 ft was observed. Groundwater sample logs are included in **Exhibit A**.

Purging continued until the water quality parameters stabilized within the USEPA Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells over a 5-minute period. Once stabilized, the pumping rate was reduced (when possible) and the flow-through cell was disconnected. Samples were collected directly into laboratory supplied containers. The sample container selection and preservation techniques followed EGLE Remediation and Redevelopment Division (RRD) Standard Operating Procedure for Sample Preservation, Sample Handling, and Holding Time (RRD-34).

The samples were labeled, packed on ice, and shipped via courier under routine chain-of-custody protocols to Merit Laboratories, Inc. (Merit) of East Lansing, Michigan. The groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, and total and dissolved metals (arsenic, barium, lead, selenium, and zinc) by EPA Method 200.8.

Quality Assurance/Quality Control (QA/QC) samples for VOCs were collected and included a blind duplicate, field blank, and matrix spike/matrix spike duplicate (MS/MSD) set. One trip blank was submitted with each cooler shipment containing samples collected for VOC analyses. The blind duplicate was collected from OBG MW-5S. The duplicate sample results compared closely with the original sample results indicating good reproducibility, except for total arsenic and total zinc, which had relative percent differences of greater than 20%. Furthermore, the various blank samples collected during sampling were non-detect indicating that cross-contamination was not an issue for this sampling event.

3. GROUNDWATER SAMPLING RESULTS

Analytical results for this event indicate VOCs were not detected above the laboratory reporting limits, except at offsite monitoring wells OBG OS-MW-4, and OBG OS-MW-5 (which are screened in fill material) and onsite wells OBG MW-3 and OBG MW-5S.

All detected concentrations are below the EGLE Part 201 Generic Residential Drinking Water criteria. The concentrations for isopropylbenzene (6 µg/l) and naphthalene (11 µg/l) at OBG OS-MW-4 were above the EGLE Site Specific Volatilization to Indoor Air (VIAC) Residential Groundwater Not in Contact Criteria (GWNIC) for (0.60 µg/l) isopropylbenzene and (4.2 µg/l) naphthalene. The analytical results for the annual event are summarized on **Table 4** and the groundwater analytical reports are included in **Exhibit B**.

The samples were analyzed for both total and dissolved metals. The dissolved sample result concentrations were less than the total sample result concentrations for this sampling event, except for zinc at OBG MW-3 and OBG OS-MW-5. There were three sample results where the total metal result exceeded criteria and the dissolved metal result was below criteria. The sample location and analyte are listed below:

- Onsite monitoring wells: OBG MW-3 total arsenic concentration was 12 µg/l and the dissolved arsenic concentration was 6 µg/l. OBG MW-7S total arsenic concentration was 11 µg/l and the dissolved arsenic concentration was 9 µg/l.

- Offsite monitoring well: OBG OS-MW-2 total lead concentration was 20 µg/l and the dissolved lead concentration was not detected above the reporting limit of 3 µg/l.

Selenium and zinc were not detected above the laboratory reporting limits or detections were below the EGLE Part 201 Generic Residential Drinking Water criteria.

Lead concentrations were below the reporting limit except at OBG OS-MW-2, which had a total lead result of 20 µg/l, and the dissolved lead result was non-detect.

Analytical results for arsenic levels at or above the EGLE Part 201 Generic Residential and Nonresidential Drinking Water criterion (10 µg/l) are as follows (results are total unless the dissolved result did not exceed criteria and then both are listed. If the dissolved result also exceeded criteria only the highest of the total or dissolved sample results for each well is reported herein):

- Onsite monitoring wells: OBG MW-2S (16 µg/l), OBG MW-2D (24 µg/l), OBG MW-3 (12 µg/l, dissolved result 6 µg/l), OBG MW- 6D (21 µg/l), OBG MW-7S (11 µg/l, dissolved result 9 µg/l), and OBG MW-7D (34 µg/l).
- Offsite monitoring wells: OBG OS-MW-1 (44 µg/l), OBG OS-MW-2 (69 µg/l), and OBG OS-MW-3 (16 µg/l).

Analytical results for barium levels above the EGLE Part 201 Generic Residential and Non-Residential Drinking Water criterion (2,000 µg/l) are as follows:

- Offsite monitoring well: OBG OS MW-5 (2,880 µg/l).

The duplicate sample results for OBG MW-5S compared closely with the original sample results indicating good reproducibility, except for total arsenic and total zinc, which had relative percent differences of greater than 20%. Furthermore, the various blank samples collected during sampling

were non-detect indicating that cross-contamination was not an issue for this sampling event. A figure depicting the groundwater results above EGLE criteria is included as **Figure 4**.

4. SUMMARY

The results from this event support the conclusions and recommendations in the 2019 draft NFA Report.

The results of the annual groundwater sampling event are comparable to previous results. Concentrations of arsenic were detected above the EGLE Part 201 Nonresidential Drinking Water criteria in samples collected from both onsite and offsite wells and both wells screened in fill material and native soils. Therefore, the concentrations appear to be related to reducing conditions not caused by Site related impacts and do not appear to be leaching from the fill material. In addition, barium and lead concentrations were detected in offsite wells above the EGLE Part 201 Nonresidential Drinking Water criteria, which appear to be related to the fill material in these locations and not a result of groundwater migrating from the Site. On-site exceedances can be addressed with a resource use restriction for Site groundwater as provided in the 2019 draft NFA report.

Concentrations of VOCs were only detected above reporting limits at two offsite wells (OBG OS-MW-4 and OBG OS-MW-5) and two onsite wells (OBG MW-3 and OBG MW-5S) during this event and these results appear to be related to the fill material in these areas. These detections are below their EGLE Part 201 Nonresidential Drinking Water criteria.

Review of the groundwater analytical data for this annual sampling event and historical data indicates groundwater constituents and concentrations at offsite wells (OBG OS-MW-4 and OBG OS-MW-5) are mostly different than those detected at the HRIL Site. Therefore, impacted groundwater and fill material at the HRIL Site does not appear to be the source for contaminant concentrations detected offsite to the east or south.

As presented in **Table 3**, LNAPL thickness was considered immeasurable in wells MW-401, OBG MW-4S, and OBG MW-10 due to either a minimal thickness of LNAPL or LNAPL coating the probe which prevented an accurate measurement.

The next scheduled sampling event is the second quarter of 2024.

If you have questions or would like additional information, please contact Clifford Yantz at (313) 333-0211 or David Favero at (217) 741-6235.

TABLES

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TABLE 1
RACER Trust - Hemphill Road Industrial Land
Monitoring Well Construction Details

Well	Completion Date	Installed By: Consultant/ Driller	Total Well Depth *	Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Casing Diameter (inches)	Screened Interval Elevations	Estimated Sand/Gravel Pack Elevations
ONSITE WELLS								
OBG MW-1S	29-Nov-10	O'Brien & Gere / Boart Longyear	27.20	774.9	777.64	2	755.44-750.44	757.44-749.44
OBG MW-2S	30-Nov-10	O'Brien & Gere / Boart Longyear	20.30	772.9	775.33	2	760.03-755.03	762.03-754.03
OBG MW-2D	30-Nov-10	O'Brien & Gere / Boart Longyear	38.50	772.8	775.19	2	741.69-736.69	743.69-735.69
OBG MW-3	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	774.3	777.31+	2	754.54-749.54	756.54-748.54
OBG MW-4S	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	766.3	769.15	2	746.45-741.45	748.45-740.45
OBG MW-5S	1-Dec-10	O'Brien & Gere / Boart Longyear	20.30	768.5	771.00	2	755.7-750.7 **	757.7-749.7
OBG MW-6S	1-Dec-10	O'Brien & Gere / Boart Longyear	19.10	769.70	772.70	2	758.6-753.6	760.6-752.6
OBG MW-6D	1-Dec-10	O'Brien & Gere / Boart Longyear	44.40	769.65	772.69	2	733.29-728.29	735.29-727.29
OBG MW-7S	2-Dec-10	O'Brien & Gere / Boart Longyear	17.70	763.56	766.30	2	753.6-748.6	755.6-747.6
OBG MW-7D	2-Dec-10	O'Brien & Gere / Boart Longyear	47.80	763.55	766.36	2	723.56-718.56	725.56-717.56
OBG MW-8	9-Jun-16	O'Brien & Gere/ Stock	22.46	768.14	771.21	2	759.23- 749.23	761.14-749.14
OBG MW-9	9-Jun-16	O'Brien & Gere/ Stock	22.65	767.91	770.93	2	758.78-748.78	760.91-748.91
OBG MW-10	9-Jun-16	O'Brien & Gere/ Stock	21.00	766.17	768.96	2	758.5-748.5	760.17- 748.17
OBG MW-11	9-Jun-16	O'Brien & Gere/ Stock	20.00	772.60	775.64	2	762.6- 752.6	764.6-744.6
OFFSITE WELLS								
OBG OS MW-1	11-Nov-13	O'Brien & Gere / Cascade	30.15	774.09	776.57	2	756.42-746.42 **	754.42-745.42
OBG OS MW-2	11-Nov-13	O'Brien & Gere / Cascade	30.29	774.02	776.67	2	756.38-746.38 **	754.38-744.42
OBG OS MW-3	9-Jun-14	O'Brien & Gere / Cascade	30.29	779.78	782.89	2	762.59-752.59 **	764.59-751.59
OBG OS MW-4	9-Jun-14	O'Brien & Gere / Cascade	27.76	776.09	779.00	2	761.20-751.20 **	763.20-750.20
OBG OS MW-5	10-Jun-14	O'Brien & Gere / Cascade	28.15	776.45	779.38	2	761.18-751.18 **	763.18-750.18

Notes:
1) ft amsl - feet above mean sea level (NGVD 1929)
2) ft TOC - feet below Top of Casing
3) Wells are polyvinylchloride (PVC), schedule 40, screen slot size 0.010 inch.
4) * - Total well depth as measured from TOC
   Elevation referenced to NGVD 1929
5) + - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
6) ** - Monitoring well is screened in waste fill.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 12/20/2010 (ft btoc)	Static Water Elevation 12/20/2010 (ft amsl)	Depth To Water 2/25/2011 (ft btoc)	Static Water Elevation 2/25/2011 (ft amsl)	Depth To Water 3/22/2012 (ft btoc)	Static Water Elevation 3/22/2012 (ft amsl)	Depth To Water 6/13/2012 (ft btoc)	Static Water Elevation 6/13/2012 (ft amsl)	Depth To Water 9/20/2012 (ft btoc)	Static Water Elevation 9/20/2012 (ft amsl)
OBG MW-1S	**777.64**	13.80	763.84	13.50	764.14	12.47	765.17	12.70	764.94	13.03	764.61
OBG MW-2S	**775.33**	11.59	763.74	11.02	764.31	10.41	764.92	10.45	764.88	10.26	765.07
OBG MW-2D	**775.19**	22.02	753.17	21.80	753.39	20.16	755.03	20.45	754.74	22.34	752.85
OBG MW-3 **	**777.31**	23.00	754.24	22.95	754.29	22.72	754.59	22.69	754.62	22.69	754.62
OBG MW-4S	**769.15**	--	--	--	--	14.30	754.85	14.55	754.60	14.52	754.63
OBG MW-5S	**771.00**	15.97	755.03	15.80	755.20	15.48	755.52	15.75	755.25	15.80	755.20
OBG MW-6S	**772.70**	14.72	757.98	14.18	758.52	13.81	758.89	14.31	758.39	14.84	757.86
OBG MW-6D	**772.69**	19.61	753.08	19.46	753.23	17.99	754.70	18.51	754.18	20.11	752.58
OBG MW-7S	**766.30**	8.68	757.62	8.10	758.20	8.12	758.18	8.36	757.94	8.59	757.71
OBG MW-7D	**766.36**	14.40	751.96	14.23	752.13	12.55	753.81	13.09	753.27	14.70	751.66
OBG MW-8	**771.21**										
OBG MW-9	**770.93**										
OBG MW-10	**768.96**										
OBG MW-11	**775.64**										
OBG OS MW-1	**776.57**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-2	**776.67**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-3	**782.89**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-4	**779.00**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-5	**779.38**	--	--	--	--	--	--	--	--	--	--

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
   The previous TOC was 777.24.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 12/18/2012 (ft btoc)	Static Water Elevation 12/18/2012 (ft amsl)	Depth To Water 4/16/2013 (ft btoc)	Static Water Elevation 4/16/2013 (ft amsl)	Depth To Water 10/15/2013 (ft btoc)	Static Water Elevation 10/15/2013 (ft amsl)	Depth To Water 12/10/2013 (ft btoc)	Static Water Elevation 12/10/2013 (ft amsl)	Depth To Water 4/24/2014 (ft btoc)	Static Water Elevation 4/24/2014 (ft amsl)
OBG MW-1S	**777.64**	13.18	764.46	12.28	765.36	13.60	764.04	--	--	12.69	764.95
OBG MW-2S	**775.33**	11.03	764.30	9.76	765.57	11.48	763.85	--	--	10.32	765.01
OBG MW-2D	**775.19**	21.26	753.93	20.57	754.62	21.28	753.91	--	--	20.21	754.98
OBG MW-3 **	**777.31**	22.87	754.44	22.77	754.54	22.78	754.53	--	--	22.73	754.58
OBG MW-4S	**769.15**	14.6	754.57	14.35	754.80	--	--	--	--	--	--
OBG MW-5S	**771.00**	15.93	755.07	15.47	755.53	15.80	755.20	--	--	15.59	755.41
OBG MW-6S	**772.70**	14.62	758.08	12.42	760.28	14.94	757.76	--	--	13.79	758.91
OBG MW-6D	**772.69**	18.96	753.73	18.04	754.65	19.21	753.48	--	--	18.10	754.59
OBG MW-7S	**766.30**	8.37	757.93	7.26	759.04	8.85	757.45	--	--	7.81	758.49
OBG MW-7D	**766.36**	13.73	752.63	12.95	753.41	13.93	752.43	--	--	12.64	753.72
OBG MW-8	**771.21**			--	--	--	--	--	--	--	--
OBG MW-9	**770.93**			--	--	--	--	--	--	--	--
OBG MW-10	**768.96**			--	--	--	--	--	--	--	--
OBG MW-11	**775.64**			--	--	--	--	--	--	--	--
OBG OS MW-1	**776.57**	--	--	--	--	--	--	22.10	754.47	--	--
OBG OS MW-2	**776.67**	--	--	--	--	--	--	21.43	755.24	--	--
OBG OS MW-3	**782.89**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-4	**779.00**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-5	**779.38**	--	--	--	--	--	--	--	--	--	--

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
   The previous TOC was 777.24.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 7/2/2014 (ft btoc)	Static Water Elevation 7/2/2014 (ft amsl)	Depth To Water 7/28/2014 (ft btoc)	Static Water Elevation 7/28/2014 (ft amsl)	Depth To Water 9/11/2014 (ft btoc)	Static Water Elevation 9/11/2014 (ft amsl)	Depth To Water 5/28/2015 (ft btoc)	Static Water Elevation 5/28/2015 (ft amsl)	Depth To Water 10/29/2015 (ft btoc)	Static Water Elevation 10/29/2015 (ft amsl)
OBG MW-1S	**777.64**	--	--	--	--	12.44	765.20	12.64	765.00	12.75	764.89
OBG MW-2S	**775.33**	--	--	--	--	10.29	765.04	10.59	764.74	10.77	764.56
OBG MW-2D	**775.19**	--	--	--	--	20.42	754.77	19.90	755.29	19.94	755.25
OBG MW-3 **	**777.31**	--	--	--	--	22.54	754.77	22.85	754.46	22.77	754.54
OBG MW-4S	**769.15**	--	--	--	--	14.6	754.58	--	--	--	--
OBG MW-5S	**771.00**	--	--	--	--	15.84	755.16	15.61	755.39	15.40	755.60
OBG MW-6S	**772.70**	--	--	--	--	14.49	758.21	14.22	758.48	14.72	757.98
OBG MW-6D	**772.69**	--	--	--	--	18.06	754.63	17.54	755.15	17.70	754.99
OBG MW-7S	**766.30**	--	--	--	--	8.37	757.93	8.25	758.05	8.43	757.87
OBG MW-7D	**766.36**	--	--	--	--	12.91	753.45	12.35	754.01	12.44	753.92
OBG MW-8	**771.21**	--	--	--	--	--	--	--	--	--	--
OBG MW-9	**770.93**	--	--	--	--	--	--	--	--	--	--
OBG MW-10	**768.96**	--	--	--	--	--	--	--	--	--	--
OBG MW-11	**775.64**	--	--	--	--	--	--	--	--	--	--
OBG OS MW-1	**776.57**	--	--	--	--	22.17	754.40	21.95	754.62	22.24	754.33
OBG OS MW-2	**776.67**	--	--	--	--	21.58	755.09	21.34	755.33	21.73	754.94
OBG OS MW-3	**782.89**	25.39	757.50	25.52	757.37	25.89	757.00	25.99	756.90	26.06	756.83
OBG OS MW-4	**779.00**	24.29	754.71	24.34	754.66	24.48	754.52	24.40	754.60	24.25	754.75
OBG OS MW-5	**779.38**	24.71	754.67	24.79	754.59	24.91	754.47	24.82	754.56	24.67	754.71

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011. The previous TOC was 777.24.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 4/14/2016 (ft btoc)	Static Water Elevation 4/14/2016 (ft amsl)	Depth To Water 9/9/2016 (ft btoc)	Static Water Elevation 9/9/2016 (ft amsl)	Depth To Water 10/21/2016 (ft btoc)	Static Water Elevation 10/21/2016 (ft amsl)	Depth To Water 4/10/2016 (ft btoc)	Static Water Elevation 4/10/2016 (ft amsl)	Depth To Water 10/17/2017 (ft btoc)	Static Water Elevation 10/17/2017 (ft amsl)
OBG MW-1S	**777.64**	11.45	766.19	--	--	12.89	764.75	11.28	766.36	13.05	764.59
OBG MW-2S	**775.33**	9.16	766.17	--	--	10.38	764.95	8.83	766.50	10.93	764.40
OBG MW-2D	**775.19**	18.83	756.36	--	--	21.02	754.17	18.83	756.36	20.65	754.54
OBG MW-3 **	**777.31**	22.47	754.84	--	--	23.05	754.26	23.00	754.31	23.15	754.16
OBG MW-4S	**769.15**	--	--	--	--	--	--	13.90	755.25	14.55	754.60
OBG MW-5S	**771.00**	15.17	755.83	--	--	15.80	755.20	14.90	756.10	15.91	755.09
OBG MW-6S	**772.70**	12.70	760.00	--	--	14.53	758.17	11.71	760.99	14.90	757.80
OBG MW-6D	**772.69**	16.99	755.70	--	--	17.96	754.73	16.60	756.09	18.30	754.39
OBG MW-7S	**766.30**	7.27	759.03	--	--	8.14	758.16	6.70	759.60	8.17	758.13
OBG MW-7D	**766.36**	11.35	755.01	--	--	13.47	752.89	11.34	755.02	13.51	752.85
OBG MW-8	**771.21**	--	--	16.30	754.91	--	--	15.08	756.13	16.40	754.81
OBG MW-9	**770.93**	--	--	16.42	754.51	--	--	14.45	756.48	16.19	754.74
OBG MW-10	**768.96**	--	--	--	--	--	--	12.99	755.97	14.30	754.66
OBG MW-11	**775.64**	--	--	18.30	757.34	--	--	15.79	759.85	17.90	757.74
OBG OS MW-1	**776.57**	21.40	755.17	--	--	21.71	754.86	21.25	755.32	22.10	754.47
OBG OS MW-2	**776.67**	20.49	756.18	--	--	21.18	755.49	20.34	756.33	21.48	755.19
OBG OS MW-3	**782.89**	25.10	757.79	--	--	26.33	756.56	24.76	758.13	26.35	756.54
OBG OS MW-4	**779.00**	23.91	755.09	--	--	24.52	754.48	23.85	755.15	24.70	754.30
OBG OS MW-5	**779.38**	24.33	755.05	--	--	24.94	754.44	24.25	755.13	25.06	754.32

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
   The previous TOC was 777.24.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 4/17/2018 (ft btoc)	Static Water Elevation 4/17/2018 (ft amsl)	Depth To Water 10/15/2018 (ft btoc)	Static Water Elevation 10/15/2018 (ft amsl)	Depth To Water 4/29/2019 (ft btoc)	Static Water Elevation 4/29/2019 (ft amsl)	Depth To Water 10/1/2019 (ft btoc)	Static Water Elevation 10/1/2019 (ft amsl)	Depth To Water 6/29/2020 (ft btoc)	Static Water Elevation 6/29/2020 (ft amsl)
OBG MW-1S	**777.64**	11.08	766.56	12.35	765.29	11.67	765.97	12.89	764.75	12.31	765.33
OBG MW-2S	**775.33**	8.91	766.42	10.19	765.14	9.19	766.14	10.95	764.38	10.35	764.98
OBG MW-2D	**775.19**	18.94	756.25	20.14	755.05	18.81	756.38	19.95	755.24	19.10	756.09
OBG MW-3 **	**777.31**	22.93	754.38	23.23	754.08	23.00	754.31	23.05	754.26	23.08	754.23
OBG MW-4S	**769.15**	13.85	755.30	14.29	754.86	14.30	754.85	--	--	--	--
OBG MW-5S	**771.00**	15.20	755.80	15.66	755.34	15.49	755.51	15.88	755.12	15.70	755.30
OBG MW-6S	**772.70**	12.36	760.34	14.38	758.32	12.86	759.84	14.55	758.15	14.20	758.50
OBG MW-6D	**772.69**	16.70	755.99	17.95	754.74	16.49	756.20	17.75	754.94	16.85	755.84
OBG MW-7S	**766.30**	6.55	759.75	8.13	758.17	7.18	759.12	7.80	758.50	7.95	758.35
OBG MW-7D	**766.36**	11.43	754.93	12.56	753.80	11.24	755.12	12.42	753.94	11.55	754.81
OBG MW-8	**771.21**	15.16	756.05	15.63	755.58	15.45	755.76	16.31	754.90	15.45	755.76
OBG MW-9	**770.93**	14.44	756.49	15.65	755.28	14.44	756.49	15.96	754.97	14.72	756.21
OBG MW-10	**768.96**	12.99	755.97	13.61	755.35	13.22	755.74	--	--	13.80	755.16
OBG MW-11	**775.64**	16.29	759.35	17.15	758.49	16.20	759.44	17.21	758.43	17.09	758.55
OBG OS MW-1	**776.57**	21.29	755.28	21.98	754.59	21.20	755.37	--	--	21.95	754.62
OBG OS MW-2	**776.67**	20.30	756.37	21.24	755.43	20.35	756.32	21.31	755.36	21.11	755.56
OBG OS MW-3	**782.89**	25.05	757.84	26.16	756.73	24.95	757.94	25.81	757.08	25.39	757.50
OBG OS MW-4	**779.00**	23.99	755.01	24.61	754.39	24.10	754.90	24.60	754.40	24.49	754.51
OBG OS MW-5	**779.38**	24.36	755.02	24.97	754.41	24.47	754.91	24.96	754.42	24.82	754.56

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.
   The previous TOC was 777.24.

TABLE 2
RACER Trust - Hemphill Road Industrial Land
Groundwater Elevation Data

Well	Top of Casing Elevation (ft amsl)	Depth To Water 10/27/2020 (ft btoc)	Static Water Elevation 10/27/2020 (ft amsl)	Depth To Water 4/21/2021 (ft btoc)	Static Water Elevation 4/21/2021 (ft amsl)	Depth To Water 4/27/2022 (ft btoc)	Static Water Elevation 4/27/2022 (ft amsl)	Depth To Water 4/25/2023 (ft btoc)	Static Water Elevation 4/25/2023 (ft amsl)
OBG MW-1S	**777.64**	12.98	764.66	12.49	765.15	11.78	765.86	12.40	765.24
OBG MW-2S	**775.33**	10.75	764.58	10.11	765.22	9.03	766.30	10.06	765.27
OBG MW-2D	**775.19**	20.26	754.93	19.12	756.07	18.18	757.01	19.91	755.28
OBG MW-3 **	**777.31**	23.16	754.15	23.11	754.20	23.03	754.28	23.06	754.25
OBG MW-4S	**769.15**	--	--	--	--	--	--	--	--
OBG MW-5S	**771.00**	15.71	755.29	15.65	755.35	15.57	755.43	15.45	755.55
OBG MW-6S	**772.70**	14.44	758.26	13.85	758.85	13.70	759.00	13.70	759.00
OBG MW-6D	**772.69**	17.91	754.78	16.85	755.84	15.93	756.76	17.63	755.06
OBG MW-7S	**766.30**	7.84	758.46	7.82	758.48	7.49	758.81	7.70	758.60
OBG MW-7D	**766.36**	12.76	753.60	11.64	754.72	10.67	755.69	12.39	753.97
OBG MW-8	**771.21**	16.34	754.87	15.76	755.45	15.66	755.55	15.09	756.12
OBG MW-9	**770.93**	15.75	755.18	15.14	755.79	15.13	755.80	14.35	756.58
OBG MW-10	**768.96**	--	--	--	--	13.55	--	13.27	755.69
OBG MW-11	**775.64**	17.58	758.06	17.08	758.56	16.65	758.99	16.53	759.11
OBG OS MW-1	**776.57**	22.02	754.55	21.79	754.78	21.48	755.09	21.40	755.17
OBG OS MW-2	**776.67**	21.25	755.42	20.98	755.69	20.56	756.11	20.33	756.34
OBG OS MW-3	**782.89**	26.06	756.83	25.82	757.07	25.10	757.79	25.34	757.55
OBG OS MW-4	**779.00**	24.53	754.47	24.50	754.50	24.38	754.62	24.30	754.70
OBG OS MW-5	**779.38**	24.88	754.50	24.85	754.53	24.72	754.66	24.63	754.75

Notes:

1) ft amsl - feet above mean sea level (NGVD 1929).
2) ft btoc - feet below top of casing.
3) --' denotes depth to water not collected.
4) ** - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011. The previous TOC was 777.24.

TABLE 3
RACER Trust - Hemphill Road Industrial Land
LNAPL Observation/Removal Logs

Date	Approximate Depth to LNAPL (ft)	Depth to Water (ft)	Approximate LNAPL Thickness (ft)	Approximate Volume of LNAPL Removed	Absorbent Sock Installed
OBG MW-4S (Installled 11-2010)					
12/20/2010	IM	--	4.00	--	yes
2/25/2011	14.40	18.40	4.00	--	yes
5/13/2011	14.50	18.63	4.13	3-4 gal.	yes
6/24/2011	14.19	15.18	0.99	1-2 gal.	yes
7/29/2011	14.30	14.62	0.32	0.3-0.5 gal	yes
9/2/2011	14.43	14.51	0.08	<0.2 gal	yes
3/22/2012	IM	14.30	--	--	yes
6/13/2012	IM	14.55	--	--	yes
9/21/2012	IM	14.52	--	--	yes
12/18/2012	IM	14.60	--	--	yes
4/16/2013	14.35	14.91	0.56	<0.2 gal	yes
10/15/2013	14.49	14.60	0.11	--	yes
4/24/2014	IM	--	--	--	yes
10/14/2014	IM	--	--	--	yes
5/28/2015	IM	--	--	--	
10/29/2015	IM	14.49	--	--	
4/13/2016	IM	--	--	--	
9/9/2016*	IM	14.61	--	--	
10/21/2016*	IM	14.60	--	--	
2/15/2017*	IM	14.29	--	--	
4/11/2017*	13.90	14.40	0.50	--	
10/18/2017	IM	14.55	--	--	
4/18/2018	IM	13.85	--	--	
10/17/2018	IM	14.51	--	--	
4/30/2019	IM	14.30	--	--	
10/1/2019	IM	--	--	--	
6/29/2020	IM	--	--	--	
11/2/2020	IM	14.15	--	--	
4/26/2021	IM	14.20	--	--	
4/29/2022	IM	13.90	--	--	
4/27/2023	IM	13.89	--	--	
OBG MW-10 (Installed 6-2016)					
6/10/2016	IM	13.85	--	--	
9/9/2016	14.28	14.47	0.19	<0.2 gal	
10/20/2016	13.95	14.50	0.55	<0.5 gal	
2/15/2017	IM	13.61	--	--	
4/11/2017	IM	12.99	--	--	
10/18/2017	IM	14.30	--	--	
4/18/2018	IM	12.99	--	--	
10/17/2018	IM	14.09	--	--	
4/30/2019	IM	13.22	--	--	
10/1/2019	IM	--	--	--	
6/29/2020	IM	13.80	--	--	
11/2/2020	IM	14.30	--	--	
4/26/2021	IM	14.33	--	--	
4/29/2022	IM	13.55	--	--	
4/25/2023	IM	13.27	--	--	
MW-401 (Installed 5-1988)					
5/18/1988	UNK	12.00	--	--	
1st quarter 1993	UNK	15.26	--	--	
2nd quarter 1993	UNK	15.53	--	--	
3rd quarter 1993	UNK	15.57	--	--	
4th quarter 1993	UNK	15.85	--	--	
1st quarter 1994	UNK	15.66	--	--	
2nd quarter 1994	UNK	15.57	--	--	
3rd quarter 1994	UNK	15.69	--	--	
4th quarter 1994	UNK	15.52	--	--	
1st quarter 1995	UNK	15.50	--	--	
2nd quarter 1995	UNK	15.60	--	--	
4th quarter 1995	UNK	16.10	--	--	

TABLE 3
RACER Trust - Hemphill Road Industrial Land
LNAPL Observation/Removal Logs

Date	Approximate Depth to LNAPL (ft)	Depth to Water (ft)	Approximate LNAPL Thickness (ft)	Approximate Volume of LNAPL Removed	Absorbent Sock Installed
MW-401 (Continued) (Installed 5-1988)					
1st quarter 1996	UNK	13.72	--	--	
2nd quarter 1996	UNK	13.70	--	--	
3rd quarter 1996	UNK	13.77	--	--	
4th quarter 1996	UNK	13.65	--	--	
5/7/1998	IM	15.00	--	--	
12/13/1999	14.45	14.95	0.50	--	yes
2/22/2000	IM	14.65	--	--	yes
10/30/2000	IM	13.95	--	--	yes
3/28/2001	IM	14.64	--	--	yes
7/2/2001	IM	13.31	0.50	--	yes
9/31/2001	IM	13.30	--	--	yes
12/27/2001	IM	14.74	0.25	--	
4/4/2002	IM	14.64	--	--	
3/20/2003	IM	14.98	0.30	<0.5 gal	
6/20/2003	IM	13.60	--	<0.2 gal	
9/30/2003	IM	13.74	--	<0.2 gal	
12/16/2003	IM	13.60	--	<0.2 gal	
3/10/2004	IM	13.47	--	<0.2 gal	
6/10/2004	IM	17.30	--	<0.2 gal	
9/15/2004	IM	17.41	--	<0.2 gal	
12/21/2004	IM	13.51	--	<0.2 gal	
3/31/2005	IM	17.80	--	<0.2 gal	
6/8/2005	IM	14.65	--	<0.2 gal	
9/29/2005	IM	14.10	--	<0.2 gal	
12/29/2005	IM	13.81	--	<0.2 gal	
3/22/2012	IM	14.70	--	--	
6/13/2012	IM	13.30	--	<0.2 gal	
9/20/2012	IM	13.30	--	<0.2 gal	
12/18/2012	13.20	13.30	0.10	<0.2 gal	
4/16/2013	IM	12.99	--	<0.2 gal	
10/15/2013	IM	12.99	--	<0.2 gal	
4/24/2014	IM	14.70	--	--	
10/14/2014	IM	13.13	--	--	yes
5/28/2015	IM	--	--	--	
10/29/2015	IM	--	--	--	
4/13/2016	IM	--	--	--	
9/9/2016*	13.35	14.50	1.15	Approx. 0.5 gal	
10/20/2016*	13.20	13.90	0.60	<0.2 gal	
2/15/2017*	IM	--	0.60	<0.2 gal	
4/11/2017*	13.85	14.60	0.75	<0.2 gal	
10/18/2017	IM	13.35	0.60	--	
4/18/2018	IM	--	--	--	
10/17/2018	IM	--	--	--	
4/30/2019	IM	12.80	--	--	
10/1/2019	IM	--	--	--	
6/29/2020	IM	--	--	--	
11/2/2020	IM	12.90	--	--	
4/27/2021	IM	12.80	--	--	
4/29/2022	IM	--	--	--	
4/27/2023	IM	12.51	--	--	

Notes:

1) LNAPL = denotes Light Non-Aqueous Phase Liquid.
2) Depth to LNAPL and water measured from Top-of-casing.
3) * = absorbent sock placed in well, and denotes LNAPL measurement estimated from absorbent sock liner smear.
4) IM = denotes immeasurable amount of LNAPL, no measurement could be collected either due to minimal thickness of LNAPL or LNAPL coating the probe not allowing for
5) UNK = denotes unknown.

TABLE 4
RACER Trust - Hemphill Road Industrial Land
Groundwater Analytical Results - April 2021

	ONSITE WELLS										EGLE Part 201 Generic Criteria		EGLE Site Specific Criteria	
Monitoring Well	OBG MW-1S		OBG MW-2S		OBG MW-2D		OBG MW-3S		*OBG MW-5S		Residential	Non-Residential	Residential VIAC	Nonresidential VIAC
Sample Date	4/25/2023		4/26/2023		4/26/2023		4/25/2023		4/27/2023		Drinking Water	Drinking Water	GWNIC	GWNIC
	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved				
Metals														
Arsenic	**2**	<2	**16**	**14**	**24**	**20**	**12**	**6**	**4**	**3**	10 (A)	10 (A)	--	--
Barium	**173**	**169**	**182**	**178**	**217**	**211**	**171**	**169**	**1,070**	**1,060**	2,000 (A)	2,000 (A)	--	--
Lead	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	4.0 (L)	4.0 (L)	--	--
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)	--	--
Zinc	<5	<5	<5	<5	<5	<5	<5	**10**	**7**	<5	2,400	5,000 (E)	--	--
VOCs **DO/ORP:**	2.86	24.5	0.69	-30.0	1.34	-33.6	0.12	4.5	0.05	-133.2				
Acetone	<50		<50		<50		<50		<50		730	2,100	--	--
Acrylonitrile	<2		<2		<2		<2		<2		2.6	11	--	--
2-Butanone (MEK)	<25		<25		<25		<25		<25		13,000	38,000	--	--
Benzene	<1		<1		<1		<1		<1		5 (A)	5 (A)	1.0 ca	420 ca
n-Butylbenzene	<1		<1		<1		<1		<1		80	230	44 nc	12,000 (S) sol
Bromobenzene	<1		<1		<1		<1		<1		18	50	--	--
Bromochloromethane	<1		<1		<1		<1		<1		NA	NA	--	--
Bromodichloromethane	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromoform	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromomethane	<5		<5		<5		<5		<5		10	29	--	--
sec-Butylbenzene	<1		<1		<1		<1		<1		80	230	270 nc	18,000 (S) sol
tert-Butylbenzene	<1		<1		<1		<1		<1		80	230	7.7E-02 (M) nc	25 nc
Carbon disulfide	<5		<5		<5		<5		<5		800	2,300	--	--
Carbon tetrachloride	<1		<1		<1		<1		<1		5 (A)	5 (A)	--	--
Chlorobenzene	<1		<1		<1		<1		**1**		100 (A)	100 (A)	--	--
Chloroethane	<5		<5		<5		<5		<5		430	1700	--	--
Chloroform	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Chloromethane	<5		<5		<5		<5		<5		260	1,100	--	--
1,1-Dichloroethane	<1		<1		<1		<1		<1		880	2,500	4.7 ca	2,000 ca
1,1-Dichloroethene	<1		<1		<1		<1		<1		7 (A)	7 (A)	18 nc	3,200 nc
1,2-Dibromo-3-chloropropane	<5		<5		<5		<5		<5		0.2 (A)	0.2 (A)	--	--
1,2-Dibromoethane	<1		<1		<1		<1		<1		0.05 (A)	0.05 (A)	--	--
1,2-Dichlorobenzene	<1		<1		<1		<1		<1		600 (A)	600 (A)	--	--
1,2-Dichloroethane	<1		<1		<1		<1		<1		5 (A)	5 (A)	1.4 ca	620 ca
1,2-Dichloropropane	<1		<1		<1		<1		<1		5 (A)	5 (A)	--	--
1,3-Dichlorobenzene	<1		<1		<1		<1		<1		6.6	19	--	--
1,4-Dichlorobenzene	<1		<1		<1		<1		<1		75 (A)	75 (A)	--	--
cis-1,2-Dichloroethene	<1		<1		<1		<1		<1		70 (A)	70 (A)	3.4 nc	900 nc
cis-1,3-Dichloropropene[3]	<1		<1		<1		<1		<1		8.5	35	--	--
Dibromochloromethane	<5		<5		<5		<5		<5		80 (A,W)	80 (A,W)	--	--
Dibromomethane	<5		<5		<5		<5		<5		80	230	--	--
Dichlorodifluoromethane	<5		<5		<5		<5		<5		1,700	4,800	--	--
Diethyl ether	<10		<10		<10		<10		<10		10 (E)	10 (E)	--	--
trans-1,2-Dichloroethene	<1		<1		<1		<1		<1		100 (A)	100 (A)	13 nc	3,700 nc
trans-1,3-Dichloropropene[3]	<1		<1		<1		<1		<1		8.5	35	--	--
trans-1,4-Dichloro-2-butene	<1		<1		<1		<1		<1		na	na	--	--
Ethlybenzene	<1		<1		<1		<1		<1		74 (E)	74 (E)	2.8 ca	1,400 ca
2-Hexanone	<50		<50		<50		<50		<50		1,000	2,900	--	--
Hexachloroethane	<5		<5		<5		<5		<5		7.3	21	--	--
p-Isopropyltoluene	<5		<5		<5		<5		<5		NA	NA	--	--
Isopropylbenzene	<5		<5		<5		<5		<5		800	2,300	0.60 (M) ca	300 ca
2-Methylnaphthalene	<5		<5		<5		<5		<5		260	750	66 nc	24,000 nc
4-Methyl-2-pentanone (MIBK)	<50		<50		<50		<50		<50		1,800	5,200	--	--
tert-Methyl butyl ether (MTBE)	<5		<5		<5		<5		<5		40 (E)	40 (E)	250 ca	1.2E+05 ca
Methyl iodide	<1		<1		<1		<1		<1		NA	NA	--	--
Methylene chloride	<5		<5		<5		<5		<5		5 (A)	5 (A)	--	--
Naphthalene	<5		<5		<5		<5		<5		520	1500	4.2 (M) ca	2,200 ca
n-Propylbenzene	<1		<1		<1		<1		<1		80	230	43 (SE) dev	52,000 (SE) dev
Styrene	<1		<1		<1		<1		<1		100 (A)	100 (A)	--	--
1,1,1,2-Tetrachloroethane	<1		<1		<1		<1		<1		77	320	--	--
1,1,1-Trichloroethane	<1		<1		<1		<1		<1		200 (A)	200 (A)	--	--
1,1,2,2-Tetrachloroethane	<1		<1		<1		<1		<1		8.5	35	--	--
1,1,2-Trichloroethane	<1		<1		<1		<1		<1		5.0 (A)	5.0 (A)	--	--
1,2,3-Trichlorobenzene	<5		<5		<5		<5		<5		NA	NA	43 nc	15,000 nc
1,2,3-Trichloropropane	<1		<1		<1		<1		<1		42	120	--	--
1,2,3-Trimethylbenzene	<1		<1		<1		<1		<1		NA	NA	--	--
1,2,4-Trichlorobenzene	<5		<5		<5		<5		<5		70 (A)	70 (A)	25 nc	8,300 nc
1,2,4-Trimethylbenzene	<1		<1		<1		<1		<1		63 (E)	63 (E)	--	--
1,3,5-Trimethylbenzene	<1		<1		<1		<1		<1		72 (E)	72 (E)	18 nc	5,900 nc
Tetrachloroethene	<1		<1		<1		**1**		<1		5.0 (A)	5.0 (A)	1.5 (SE) st	1,200 (SE) st
Tetrahydrofuran	<90		<90		<90		<90		<90		95	270	45,000 nc	9.9E+06 nc
Toluene	<1		<1		<1		<1		<1		790 (E)	790 (E)	300 (SE) st	4.2E+05 (SE) st
Trichloroethene	<1		<1		<1		<1		<1		5 (A)	5 (A)	7.3-02 (M)(SE) dev	78 (SE) dev
Trichlorofluoromethane	<1		<1		<1		<1		<1		2,600	7,300	--	--
Vinyl chloride	<1		<1		<1		<1		<1		2.0 (A)	2.0 (A)	0.12 (M) mut	100 ca
o-Xylene[4]	<1		<1		<1		<1		<1		280 (E)	280 (E)	75 nc	23,000 nc
p,m-Xylene[4]	<2		<2		<2		<2		<2		280 (E)	280 (E)	75 nc	23,000 nc

Notes:
Units are µg/L.
* - indicates monitoring well is screened in fill.
Critria are for total 1,3-Dichloropropene, values for cis and trans should be summed and compared against the appropriate criterion.
Critria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
Detections are shown in bold type.
Highlighted value denotes an analytical value that exceeds criteria or a criterion that has been exceeded.
(A) - Criterion is the state of Michigan drinking water standard established pursuant toSection 5 of 1976 PA 399, MCL 325.1005.
(E) - Criterion is the aesthetic drinking water value, as required by Section 20120a(5)of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
(L) - Criteria for lead are derived using a biologically based model, as allowed forunder Section 20120a(9) of the NREPA.
(W) - Concentrations of trihalomethanes in groundwater shall be added together todetermine compliance with the Michigan drinking water standard of 80 ug/L.
'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

TABLE 4
RACER Trust - Hemphill Road Industrial Land
Groundwater Analytical Results - April 2021

		ONSITE WELLS (CONTINUED)								EGLE Part 201 Generic Criteria		EGLE Site Specific Criteria	
Monitoring Well		OBG MW-6S		OBG MW-6D		OBG MW-7S		OBG MW-7D		Residential	Non-Residential	Residential VIAC	Nonresidential VIAC
Sample Date		4/26/2023		4/26/2023		4/25/2023		4/25/2023		Drinking Water	Drinking Water	GWNIC	GWNIC
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved				
Metals													
Arsenic		**4**	**3**	**21**	**20**	**11**	**9**	**34**	**31**	10 (A)	10 (A)	--	--
Barium		**130**	**130**	**71**	**71**	**237**	**225**	**90**	**86**	2,000 (A)	2,000 (A)	--	--
Lead		<3	<3	<3	<3	<3	<3	<3	<3	4.0 (L)	4.0 (L)	--	--
Selenium		<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)	--	--
Zinc		<5	<5	<5	<5	<5	<5	<5	<5	2,400	5,000 (E)	--	--
VOCs	**DO/ORP:**	4.86	30.0	2.11	-49.6	0.12	-102.1	--	-139.3				
Acetone		<50		<50		<50		<50		730	2,100	--	--
Acrylonitrile		<2		<2		<2		<2		2.6	11	--	--
2-Butanone (MEK)		<25		<25		<25		<25		13,000	38,000	--	--
Benzene		<1		<1		<1		<1		5 (A)	5 (A)	1.0 ca	420 ca
n-Butylbenzene		<1		<1		<1		<1		80	230	44 nc	12,000 (S) sol
Bromobenzene		<1		<1		<1		<1		18	50	--	--
Bromochloromethane		<1		<1		<1		<1		NA	NA	--	--
Bromodichloromethane		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromoform		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromomethane		<5		<5		<5		<5		10	29	--	--
sec-Butylbenzene		<1		<1		<1		<1		80	230	270 nc	18,000 (S) sol
tert-Butylbenzene		<1		<1		<1		<1		80	230	7.7E-02 (M) nc	25 nc
Carbon disulfide		<5		<5		<5		<5		800	2,300	--	--
Carbon tetrachloride		<1		<1		<1		<1		5 (A)	5 (A)	--	--
Chlorobenzene		<1		<1		<1		<1		100 (A)	100 (A)	--	--
Chloroethane		<5		<5		<5		<5		430	1700	--	--
Chloroform		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Chloromethane		<5		<5		<5		<5		260	1,100	--	--
1,1-Dichloroethane		<1		<1		<1		<1		880	2,500	4.7 ca	2,000 ca
1,1-Dichloroethene		<1		<1		<1		<1		7 (A)	7 (A)	18 nc	3,200 nc
1,2-Dibromo-3-chloropropane		<5		<5		<5		<5		0.2 (A)	0.2 (A)	--	--
1,2-Dibromomethane		<1		<1		<1		<1		0.05 (A)	0.05 (A)	--	--
1,2-Dichlorobenzene		<1		<1		<1		<1		600 (A)	600 (A)	--	--
1,2-Dichloroethane		<1		<1		<1		<1		5 (A)	5 (A)	1.4 ca	620 ca
1,2-Dichloropropane		<1		<1		<1		<1		5 (A)	5 (A)	--	--
1,3-Dichlorobenzene		<1		<1		<1		<1		6.6	19	--	--
1,4-Dichlorobenzene		<1		<1		<1		<1		75 (A)	75 (A)	--	--
cis-1,2-Dichloroethene		<1		<1		<1		<1		70 (A)	70 (A)	3.4 nc	900 nc
cis-1,3-Dichloropropene[3]		<1		<1		<1		<1		8.5	35	--	--
Dibromochloromethane		<5		<5		<5		<5		80 (A,W)	80 (A,W)	--	--
Dibromomethane		<5		<5		<5		<5		80	230	--	--
Dichlorodifluoromethane		<5		<5		<5		<5		1,700	4,800	--	--
Diethyl ether		<10		<10		<10		<10		10 (E)	10 (E)	--	--
trans-1,2-Dichloroethene		<1		<1		<1		<1		100 (A)	100 (A)	13 nc	3,700 nc
trans-1,3-Dichloropropene[3]		<1		<1		<1		<1		8.5	35	--	--
trans-1,4-Dichloro-2-butene		<1		<1		<1		<1		na	na	--	--
Ethlybenzene		<1		<1		<1		<1		74 (E)	74 (E)	2.8 ca	1,400 ca
2-Hexanone		<50		<50		<50		<50		1,000	2,900	--	--
Hexachloroethane		<5		<5		<5		<5		7.3	21	--	--
p-Isopropyltoluene		<5		<5		<5		<5		NA	NA	--	--
Isopropylbenzene		<5		<5		<5		<5		800	2,300	0.60 (M) ca	300 ca
2-Methylnaphthalene		<5		<5		<5		<5		260	750	66 nc	24,000 nc
4-Methyl-2-pentanone (MIBK)		<50		<50		<50		<50		1,800	5,200	--	--
tert-Methyl butyl ether (MTBE)		<5		<5		<5		<5		40 (E)	40 (E)	250 ca	1.2E+05 ca
Methyl iodide		<1		<1		<1		<1		NA	NA	--	--
Methylene chloride		<5		<5		<5		<5		5 (A)	5 (A)	--	--
Naphthalene		<5		<5		<5		<5		520	1500	4.2 (M) ca	2,200 ca
n-Propylbenzene		<1		<1		<1		<1		80	230	43 (SE) dev	52,000 (SE) dev
Styrene		<1		<1		<1		<1		100 (A)	100 (A)	--	--
1,1,1,2-Tetrachloroethane		<1		<1		<1		<1		77	320	--	--
1,1,1-Trichloroethane		<1		<1		<1		<1		200 (A)	200 (A)	--	--
1,1,2,2-Tetrachloroethane		<1		<1		<1		<1		8.5	35	--	--
1,1,2-Trichloroethane		<1		<1		<1		<1		5.0 (A)	5.0 (A)	--	--
1,2,3-Trichlorobenzene		<5		<5		<5		<5		NA	NA	43 nc	15,000 nc
1,2,3-Trichloropropane		<1		<1		<1		<1		42	120	--	--
1,2,3-Trimethylbenzene		<1		<1		<1		<1		NA	NA	--	--
1,2,4-Trichlorobenzene		<5		<5		<5		<5		70 (A)	70 (A)	25 nc	8,300 nc
1,2,4-Trimethylbenzene		<1		<1		<1		<1		63 (E)	63 (E)	--	--
1,3,5-Trimethylbenzene		<1		<1		<1		<1		72 (E)	72 (E)	18 nc	5,900 nc
Tetrachloroethene		<1		<1		<1		<1		5.0 (A)	5.0 (A)	1.5 (SE) st	1,200 (SE) st
Tetrahydrofuran		<90		<90		<90		<90		95	270	45,000 nc	9.9E+06 nc
Toluene		<1		<1		<1		<1		790 (E)	790 (E)	300 (SE) st	4.2E+05 (SE) st
Trichloroethene		<1		<1		<1		<1		5 (A)	5 (A)	7.3-02 (M)(SE) dev	78 (SE) dev
Trichlorofluoromethane		<1		<1		<1		<1		2,600	7,300	--	--
Vinyl chloride		<1		<1		<1		<1		2.0 (A)	2.0 (A)	0.12 (M) mut	100 ca
o-Xylene[4]		<1		<1		<1		<1		280 (E)	280 (E)	75 nc	23,000 nc
p,m-Xylene[4]		<2		<2		<2		<2		280 (E)	280 (E)	75 nc	23,000 nc

Notes:
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Critria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
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(L) - Criteria for lead are derived using a biologically based model, as allowed forunder Section 20120a(9) of the NREPA.
(W) - Concentrations of trihalomethanes in groundwater shall be added together todetermine compliance with the Michigan drinking water standard of 80 ug/L.
'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

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TABLE 4
RACER Trust - Hemphill Road Industrial Land
Groundwater Analytical Results - April 2021

	OFFSITE WELLS										EGLE Part 201 Generic Criteria		EGLE Site Specific Criteria	
Monitoring Well	*OBG OS-MW-1		*OBG OS-MW-2		*OBG OS-MW-3		*OBG OS-MW-4		*OBG OS-MW-5		Residential	Non-Residential	Residential VIAC	Nonresidential VIAC
Sample Date	5/1/2023		5/1/2023		4/27/2023		4/27/2023		4/27/2023		Drinking Water	Drinking Water	GWNIC	GWNIC
	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved				
Metals														
Arsenic	**44**	**36**	**69**	**58**	**16**	**15**	**3**	**3**	**2**	**2**	10 (A)	10 (A)	--	--
Barium	**796**	**790**	**219**	**216**	**285**	**277**	**1,280**	**1,240**	**2,880**	**2,750**	2,000 (A)	2,000 (A)	--	--
Lead	<3	<3	**20**	<3	<3	<3	<3	<3	<3	<3	4.0 (L)	4.0 (L)	--	--
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)	--	--
Zinc	<5	<5	**29**	**7**	<5	<5	<5	<5	**11**	**28**	2,400	5,000 (E)	--	--
VOCs **DO/ORP:**	0.09	-80.3	0.13	-97.6	0.14	-190.5	0.24	-111.3	0.02	-109.7				
Acetone	<50		<50		<50		<50		<50		730	2,100	--	--
Acrylonitrile	<2		<2		<2		<2		<2		2.6	11	--	--
2-Butanone (MEK)	<25		<25		<25		<25		<25		13,000	38,000	--	--
Benzene	<1		<1		<1		<1		<1		5 (A)	5 (A)	1.0 ca	420 ca
n-Butylbenzene	<1		<1		<1		**2**		<1		80	230	44 nc	12,000 (S) sol
Bromobenzene	<1		<1		<1		<1		<1		18	50	--	--
Bromochloromethane	<1		<1		<1		<1		<1		NA	NA	--	--
Bromodichloromethane	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromoform	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Bromomethane	<5		<5		<5		<5		<5		10	29	--	--
sec-Butylbenzene	<1		<1		<1		**3**		<1		80	230	270 nc	18,000 (S) sol
tert-Butylbenzene	<1		<1		<1		<1		<1		80	230	7.7E-02 (M) nc	25 nc
Carbon disulfide	<5		<5		<5		<5		<5		800	2,300	--	--
Carbon tetrachloride	<1		<1		<1		<1		<1		5 (A)	5 (A)	--	--
Chlorobenzene	<1		<1		<1		**9**		**5**		100 (A)	100 (A)	--	--
Chloroethane	<5		<5		<5		<5		<5		430	1700	--	--
Chloroform	<1		<1		<1		<1		<1		80 (A,W)	80 (A,W)	--	--
Chloromethane	<5		<5		<5		<5		<5		260	1,100	--	--
1,1-Dichloroethane	<1		<1		<1		<1		<1		880	2,500	4.7 ca	2,000 ca
1,1-Dichloroethene	<1		<1		<1		<1		<1		7 (A)	7 (A)	18 nc	3,200 nc
1,2-Dibromo-3-chloropropane	<5		<5		<5		<5		<5		0.2 (A)	0.2 (A)	--	--
1,2-Dibromomethane	<1		<1		<1		<1		<1		0.05 (A)	0.05 (A)	--	--
1,2-Dichlorobenzene	<1		<1		<1		<1		<1		600 (A)	600 (A)	--	--
1,2-Dichloroethane	<1		<1		<1		<1		<1		5 (A)	5 (A)	1.4 ca	620 ca
1,2-Dichloropropane	<1		<1		<1		<1		<1		5 (A)	5 (A)	--	--
1,3-Dichlorobenzene	<1		<1		<1		<1		<1		6.6	19	--	--
1,4-Dichlorobenzene	<1		<1		<1		**6**		<1		75 (A)	75 (A)	--	--
cis-1,2-Dichloroethene	<1		<1		<1		<1		<1		70 (A)	70 (A)	3.4 nc	900 nc
cis-1,3-Dichloropropene[3]	<1		<1		<1		<1		<1		8.5	35	--	--
Dibromochloromethane	<5		<5		<5		<5		<5		80 (A,W)	80 (A,W)	--	--
Dibromomethane	<5		<5		<5		<5		<5		80	230	--	--
Dichlorodifluoromethane	<5		<5		<5		<5		<5		1,700	4,800	--	--
Diethyl ether	<10		<10		<10		<10		<10		10 (E)	10 (E)	--	--
trans-1,2-Dichloroethene	<1		<1		<1		<1		<1		100 (A)	100 (A)	13 nc	3,700 nc
trans-1,3-Dichloropropene[3]	<1		<1		<1		<1		<1		8.5	35	--	--
trans-1,4-Dichloro-2-butene	<1		<1		<1		<1		<1		na	na	--	--
Ethlybenzene	<1		<1		<1		<1		<1		74 (E)	74 (E)	2.8 ca	1,400 ca
2-Hexanone	<50		<50		<50		<50		<50		1,000	2,900	--	--
Hexachloroethane	<5		<5		<5		<5		<5		7.3	21	--	--
p-Isopropyltoluene	<5		<5		<5		<5		<5		NA	NA	--	--
Isopropylbenzene	<5		<5		<5		**6**		<5		800	2,300	0.60 (M) ca	300 ca
2-Methylnaphthalene	<5		<5		<5		<5		<5		260	750	66 nc	24,000 nc
4-Methyl-2-pentanone (MIBK)	<50		<50		<50		<50		<50		1,800	5,200	--	--
tert-Methyl butyl ether (MTBE)	<5		<5		<5		<5		<5		40 (E)	40 (E)	250 ca	1.2E+05 ca
Methyl iodide	<1		<1		<1		<1		<1		NA	NA	--	--
Methylene chloride	<5		<5		<5		<5		<5		5 (A)	5 (A)	--	--
Naphthalene	<5		<5		<5		**11**		<5		520	1500	4.2 (M) ca	2,200 ca
n-Propylbenzene	<1		<1		<1		**11**		<1		80	230	43 (SE) dev	52,000 (SE) dev
Styrene	<1		<1		<1		<1		<1		100 (A)	100 (A)	--	--
1,1,1,2-Tetrachloroethane	<1		<1		<1		<1		<1		77	320	--	--
1,1,1-Trichloroethane	<1		<1		<1		<1		<1		200 (A)	200 (A)	--	--
1,1,2,2-Tetrachloroethane	<1		<1		<1		<1		<1		8.5	35	--	--
1,1,2-Trichloroethane	<1		<1		<1		<1		<1		5.0 (A)	5.0 (A)	--	--
1,2,3-Trichlorobenzene	<5		<5		<5		<5		<5		NA	NA	43 nc	15,000 nc
1,2,3-Trichloropropane	<1		<1		<1		<1		<1		42	120	--	--
1,2,3-Trimethylbenzene	<1		<1		<1		**3**		<1		NA	NA	--	--
1,2,4-Trichlorobenzene	<5		<5		<5		<5		<5		70 (A)	70 (A)	25 nc	8,300 nc
1,2,4-Trimethylbenzene	<1		<1		<1		**1**		<1		63 (E)	63 (E)	--	--
1,3,5-Trimethylbenzene	<1		<1		<1		<1		<1		72 (E)	72 (E)	18 nc	5,900 nc
Tetrachloroethene	<1		<1		<1		<1		<1		5.0 (A)	5.0 (A)	1.5 (SE) st	1,200 (SE) st
Tetrahydrofuran	<90		<90		<90		<90		<90		95	270	45,000 nc	9.9E+06 nc
Toluene	<1		<1		<1		<1		<1		790 (E)	790 (E)	300 (SE) st	4.2E+05 (SE) st
Trichloroethene	<1		<1		<1		<1		<1		5 (A)	5 (A)	7.3-02 (M)(SE) dev	78 (SE) dev
Trichlorofluoromethane	<1		<1		<1		<1		<1		2,600	7,300	--	--
Vinyl chloride	<1		<1		<1		<1		<1		2.0 (A)	2.0 (A)	0.12 (M) mut	100 ca
o-Xylene[4]	<1		<1		<1		<1		<1		280 (E)	280 (E)	75 nc	23,000 nc
p,m-Xylene[4]	<2		<2		<2		<2		<2		280 (E)	280 (E)	75 nc	23,000 nc

Notes:
Units are µg/L.
* - indicates monitoring well is screened in fill.
Critria are for total 1,3-Dichloropropene, values for cis and trans should be summed and compared against the appropriate criterion.
Critria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
Detections are shown in bold type.
Highlighted value denotes an analytical value that exceeds criteria or a criterion that has been exceeded.
(A) - Criterion is the state of Michigan drinking water standard established pursuant toSection 5 of 1976 PA 399, MCL 325.1005.
(E) - Criterion is the aesthetic drinking water value, as required by Section 20120a(5)of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
(L) - Criteria for lead are derived using a biologically based model, as allowed forunder Section 20120a(9) of the NREPA.
(W) - Concentrations of trihalomethanes in groundwater shall be added together todetermine compliance with the Michigan drinking water standard of 80 ug/L.
'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

FIGURES

MONITORING WELL LOCATION
(SCREENED IN NATIVE SOIL)

MONITORING WELL LOCATION
(SCREENED IN FILL)

FENCE LINE

HEMPHILL ROAD INDUSTRIAL LAND

0 50 100 Feet

MONITORING WELL LOCATIIONS

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

FIGURE 01

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

Notes:
1) Groundwater elevations for onsite wells OBG MW-4S, MW-401 and MW-403 were not recorded for this event.
2) OBG MW-1S, OBG MW-2S, OBG MW-3, and OBG MW-6S are screened in native soils.
The remaining wells are screened in waste material, which may constitue a different flow regime.
3) This document was developed in color. Reproduction in B/W may not represent the data as intended.
4) Aerial photo provided by ESRI.

MONITORING WELL LOCATION (SCREENED IN FILL)
MONITORING WELL LOCATION (SCREENED IN NATIVE SOIL)
SHALLOW GROUNDWATER ELEVATION CONTOUR
FENCE LINE
APPROXIMATE EXTENT OF WASTE FILL ONSITE

0 50 100 Feet

INTERPRETED SHALLOW GROUNDWATER ELEVATION CONTOURS APRIL 25, 2023

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

FIGURE 02

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

MONITORING WELL LOCATION (SCREENED IN NATIVE SOIL)

DEEP GROUNDWATER ELEVATION CONTOUR

FENCE LINE

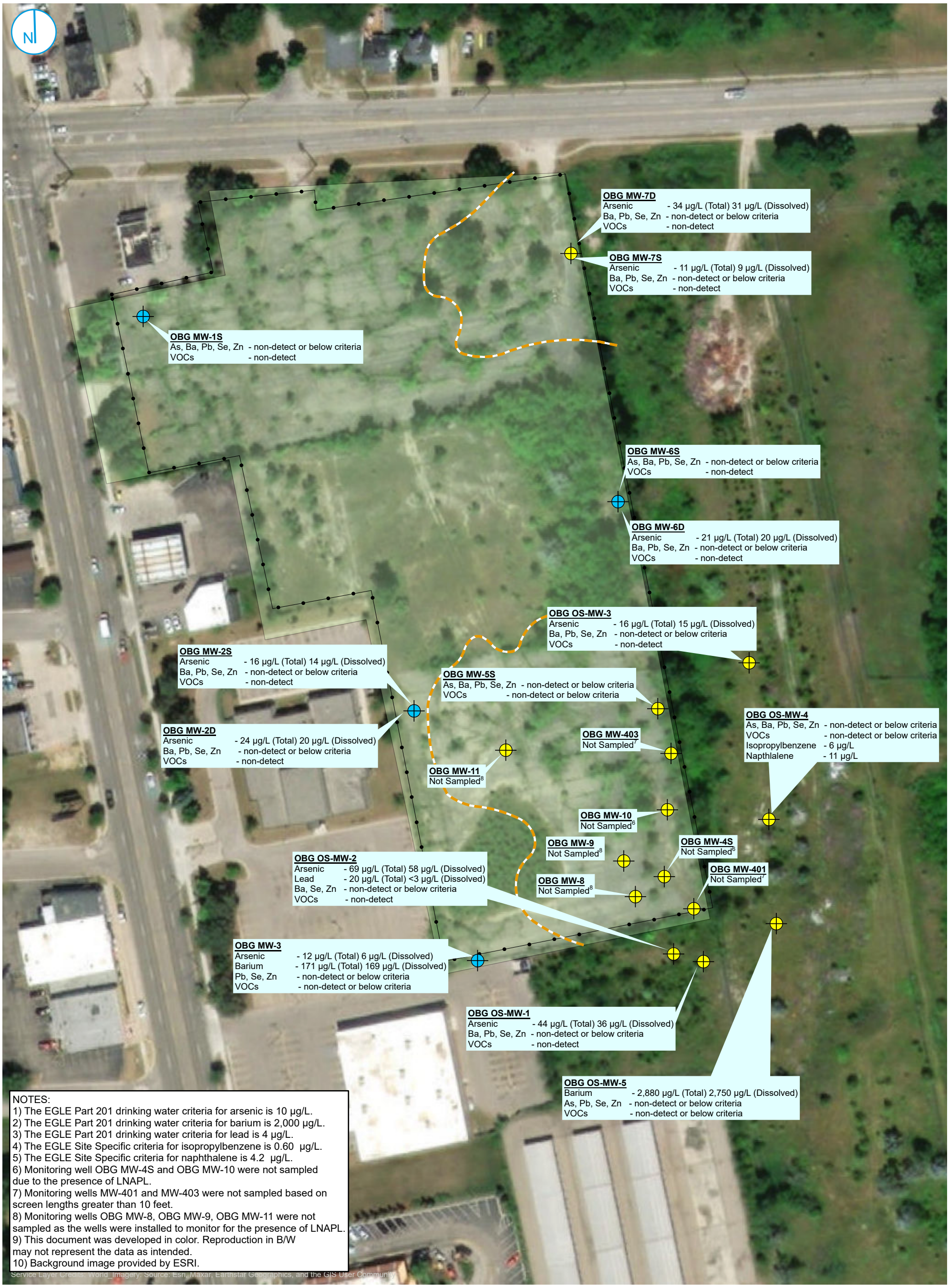
0 50 100 Feet

INTERPRETED DEEP GROUNDWATER ELEVATION CONTOURS APRIL 25, 2023

FIGURE 03

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY



MONITORING WELL (SCREENED IN NATIVE SOIL)
MONITORING WELL (SCREENED IN FILL)
FENCE LINE
HEMPHILL ROAD INDUSTRIAL LAND
FORMER BUILDING
APPROXIMATE EXTENT OF WASTE FILL ONSITE

0 50 100 Feet

GROUNDWATER ANALYTICAL RESULTS
APRIL 2023

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

FIGURE 04

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

EXHIBIT A
GROUNDWATER SAMPLE LOGS

RAMBOLL

Standard Groundwater Sampling Log

Date	4/25/2023		
Site Name	RACER Hemphill	Weather	Cloudy Breezy, 44°F
Location	Burton, MI	Well #	OBG MW-1S
Project No.	1940103640	Evacuation Method	Peristaltic Pump
Personnel	KBS/ SEH	Sampling Method	Low Flow

Well Information:

Depth of Well *	27.20	ft.
Depth to Water *	12.39	ft.
Length of Water Column	14.81	ft.
Volume of Water in Well	2.41	gal.(s)
3X Volume of Water in Well	7.24	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 0.75 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 ml/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	12.39	11.34	1.20	3.53	7.29	28.0	12.0
				4.22			
5 min	12.97	11.29	1.20	3.49	7.29	28.2	9.2
10 min	13.92	10.88	1.21	3.38	7.30	28.7	10.6
15 min	14.00	11.11	1.21	3.22	7.31	28.8	10.2
20 min	13.79	10.73	1.21	3.05	7.30	29.0	7.52
25 min	13.98	10.83	1.21	2.90	7.29	28.0	6.69
30 min	14.00	11.03	1.21	2.89	7.28	26.4	7.03
35 min	13.98	11.69	1.21	2.86	7.27	24.5	6.69
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 14:45

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	12.0	Turbidity (> 100 NTU)	6.69
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Started purging at 2:05 P/ 14:05
Sample taken at 2:45 P/ 14:45

RAMBOLL

Standard Groundwater Sampling Log

Date	4/26/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 40s (°F)
Location	Burton, MI	Well #	OBG MW-2S
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	20.30	ft.
Depth to Water *	10.07	ft.
Length of Water Column	10.23	ft.
Volume of Water in Well	1.67	gal.(s)
3X Volume of Water in Well	5.00	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 ml/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	10.07	14.40	0.00	10.21	8.45	39.5	18.2
5 min	10.65	8.92	2.33	1.90	7.46	31.1	14.3
10 min	10.84	8.57	2.35	1.48	7.45	26.9	15.2
15 min	11.25	8.57	2.36	1.28	7.46	18.3	14.9
20 min	11.31	8.95	2.34	1.26	7.48	13.5	15.1
25 min	11.40	9.72	2.33	1.30	7.48	14.4	13.4
30 min	11.59	9.56	2.34	1.30	7.45	12.7	20.8
35 min	11.70	9.85	2.34	1.23	7.43	-4.9	13.4
40 min	11.87	9.81	2.33	1.08	7.42	-20.4	9.78
45 min	12.20	10.60	2.31	1.07	7.4	-16.5	9.49
50 min	12.25	10.87	2.30	1.11	7.38	-17.5	12.60
55 min	12.31	10.91	2.30	1.07	7.35	-17.9	9.68
60 min	12.49	11.64	2.28	0.85	7.32	-23.7	9.23
65 min	12.61	11.19	2.29	0.81	7.29	-25.1	12.4
70 min	12.75	11.48	2.29	0.75	7.25	-27.7	9.31
75 min	12.87	11.66	2.29	0.69	7.24	-30.7	7.32
80 min	12.91	11..79	2.28	0.73	7.23	-30.0	7.24
85 min	12.98	11.80	2.29	0.67	7.21	-30.0	8.31
90 min							
95 min							
100 min							
105 min							
110 min							
115 min							
120 min							

Water Sample:
Time Collected: 10:20

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear with some flecks	Color	Clear with some flecks
Odor	None	Odor	None
Turbidity (> 100 NTU)	18.2	Turbidity (> 100 NTU)	8.31
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Purging started at 8:50 A
Sample collected at 10:20 A

RAMBOLL

Standard Groundwater Sampling Log

Date	4/26/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 40s (°F)
Location	Burton, MI	Well #	OBG MW-2D
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	38.50	ft.
Depth to Water *	20.09	ft.
Length of Water Column	18.41	ft.
Volume of Water in Well	3.00	gal.(s)
3X Volume of Water in Well	9.00	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1.25 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	20.09	12.91	1.35	4.41	7.58	16.3	35.2
5 min	20.20	13.32	1.36	2.42	7.54	19.4	18.1
10 min	20.25	12.49	1.37	2.14	7.51	21.5	22.50
15 min	20.29	11.95	1.40	1.74	7.43	10.6	10.10
20 min	20.30	12.09	1.40	1.36	7.43	-4.4	12.9
25 min	20.30	13.40	1.37	1.29	7.46	-13.8	11.1
30 min	20.35	12.68	1.40	1.20	7.43	-18.7	11.8
35 min	20.33	12.30	1.40	1.29	7.49	-19.9	9.72
40 min	20.35	11.94	1.41	1.37	7.46	-25.8	9.14
45 min	20.35	11.32	1.40	1.40	7.46	-26.0	10.20
50 min	20.32	11.84	1.39	1.33	7.46	-29.4	10.40
55 min	20.28	12.95	1.39	1.34	7.49	-33.6	10.30
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							
95 min							

Water Sample:
Time Collected: 11:40

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Sightly Cloudy	Color	Clear with some flecks
Odor	None	Odor	None
Turbidity (> 100 NTU)	35.2	Turbidity (> 100 NTU)	10.30
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes
PFAS	3	15 ml Plastic	none	

Notes:
Purging started at 10:40 A
Sample taken at 11:40 A

RAMBOLL

Standard Groundwater Sampling Log

Date	4/25/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 44 °F
Location	Burton, MI	Well #	OBG MW-3S
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SEH	Sampling Method	Low Flow

Well Information:

Depth of Well *	27.70	ft.
Depth to Water *	23.06	ft.
Length of Water Column	4.64	ft.
Volume of Water in Well	0.76	gal.(s)
3X Volume of Water in Well	2.27	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 0.75 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	23.06	16.03	3.81	2.11	6.69	10.4	27.6
5 min	23.06	12.54	4.13	0.23	6.72	-1.3	22.2
10 min	23.09	11.83	4.01	0.16	6.70	-1.4	15.10
15 min	23.08	11.80	3.97	0.16	6.72	2.3	10.40
20 min	23.09	12.09	3.89	0.13	6.72	3.5	7.80
25 min	23.09	12.12	4.00	0.13	6.73	3.7	8.03
30 min	23.08	12.12	3.83	0.12	6.73	4.5	7.51
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 15:45

Physical Appearance at Start		Physical Appearance at Sampling	
Color	mostly clear with floating globs	Color	mostly clear with floating globs
Odor	None	Odor	None
Turbidity (> 100 NTU)	27.6	Turbidity (> 100 NTU)	7.51
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Purging started at 15:10
Sample collected at 15:45

RAMBOLL

Standard Groundwater Sampling Log

Date	4/27/2022		
Site Name	RACER Hemphill	Weather	Sunny 50s (°F)
Location	Burton, MI	Well #	OBG MW-5S
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS	Sampling Method	Low Flow

Well Information:

Depth of Well *	20.30	ft.
Depth to Water *	15.45	ft.
Length of Water Column	4.85	ft.
Volume of Water in Well	0.79	gal.(s)
3X Volume of Water in Well	2.37	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1.25 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	15.85	13.4	2.682	2.32	6.62	-110.4	
5 min	16.12	13.2	2.645	1.67	6.53	-113.4	39.4
10 min	16.39	13.2	2.594	1.27	6.49	-114.3	41.5
15 min	16.45	13.3	2.577	1.13	6.47	-114.9	38.8
20 min	16.55	13.5	2.574	0.03	6.45	-115.3	31.0
25 min	16.55	13.5	2.574	0.01	6.44	-116.1	24.7
30 min	16.60	13.6	2.584	0.01	6.45	-117.7	27.1
35 min	16.60	13.6	2.646	0.02	6.45	-121.3	17.4
40 min	16.60	13.5	2.682	0.03	6.45	-122.3	20.0
45 min	16.60	13.8	2.692	0.03	6.46	-123.9	15.8
50 min	16.62	14.2	2.713	0.03	6.46	-125.6	19.9
55 min	16.62	14.0	2.763	0.03	6.46	-131.1	20.4
60 min	16.62	14.2	2.820	0.05	6.47	-133.2	19.8
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							
95 min							
100 min							
105 min							
110 min							
115 min							
120 min							

Water Sample:
Time Collected: 13:52

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly cloudy/ Yellowish	Color	Clear/ Yellowish
Odor	Petroleum type odor	Odor	Petroleum type odor
Turbidity (> 100 NTU)	39.4	Turbidity (> 100 NTU)	19.80
Sheen/Free Product	Slight sheen	Sheen/Free Product	Slight sheen

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes
PFAS	3	15 ml Plastic	none	

Notes:
DUP-042723 Collected

RAMBOLL

Standard Groundwater Sampling Log

Date	4/26/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 40s (°F)
Location	Burton, MI	Well #	OBG MW-6S
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	19.10	ft.
Depth to Water *	13.78	ft.
Length of Water Column	5.32	ft.
Volume of Water in Well	0.87	gal.(s)
3X Volume of Water in Well	2.60	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1.25 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	14.22	16.49	1.06	6.91	5.98	67.3	12.0
5 min	14.25	11.20	1.20	6.18	6.83	40.7	12.0
10 min	14.22	12.32	1.20	6.06	6.84	40.7	12.70
15 min	14.29	12.12	1.19	5.96	6.85	39.7	11.8
20 min	14.53	11.62	1.20	5.73	6.88	38.4	10.4
25 min	14.72	10.88	1.20	6.05	6.88	38.4	7.32
30 min	14.91	10.25	1.21	6.14	6.88	36.9	9.62
35 min	15.12	9.96	1.21	5.30	6.84	35.0	9.9
40 min	15.42	11.29	1.22	4.86	6.64	30.0	9.29
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 13:10

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear with flecks	Color	Clear, some flecks
Odor	None	Odor	None
Turbidity (> 100 NTU)	12.0	Turbidity (> 100 NTU)	9.29
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Purging started 12:10 P
Samples Collected 1:10 P

RAMBOLL

Standard Groundwater Sampling Log

Date	4/26/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 40's (°F)
Location	Burton, MI	Well #	OBG MW-6D
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	44.40	ft.
Depth to Water *	17.82	ft.
Length of Water Column	26.58	ft.
Volume of Water in Well	4.33	gal.(s)
3X Volume of Water in Well	13.00	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1.5 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	18.15	18.02	0.70	5.39	8.01	18.8	31.8
5 min	18.70	11.90	0.79	5.40	7.55	33.0	13.4
10 min	18.90	12.05	0.79	6.16	7.55	28.0	12.2
15 min	19.10	11.66	0.80	3.91	7.49	6.4	5.46
20 min	19.19	11.34	0.81	3.22	7.72	2.9	5.62
25 min	19.28	11.38	0.81	2.63	7.74	-7.8	2.24
30 min	19.36	12.31	0.80	2.35	7.79	-26.9	2.92
35 min	19.45	12.63	0.80	2.08	7.78	-48.3	2.55
40 min	19.50	12.53	0.81	2.18	7.78	-43.2	3.22
45 min	19.57	12.76	0.80	2.11	7.76	-49.6	3.56
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 14:20

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly cloudy	Color	Clear, some flecks
Odor	None	Odor	None
Turbidity (> 100 NTU)	31.80	Turbidity (> 100 NTU)	3.56
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes
PFAS	3	15 ml Plastic	none	

Notes:
Purging started 13:35
Samples collected 14:20

RAMBOLL

Standard Groundwater Sampling Log

Date	4/25/2023		
Site Name	RACER Hemphill	Weather	Cloudy, breezy 44°F
Location	Burton, MI	Well #	OBG MW-7S
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	17.69	ft.
Depth to Water *	7.70	ft.
Length of Water Column	9.99	ft.
Volume of Water in Well	1.63	gal.(s)
3X Volume of Water in Well	4.89	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	7.70	10.79	1.42	1.41	6.52	-86.8	72.4
5 min	8.40	9.93	1.45	0.37	6.52	-87.0	57.5
10 min	9.20	9.37	1.46	0.19	6.52	-91.6	51.6
15 min	9.64	9.31	1.46	0.17	6.53	-79.8	48.5
20 min	10.07	9.34	1.47	0.15	6.53	-93.3	48.7
25 min	10.46	9.34	1.47	0.13	6.53	-96.5	45.7
30 min	10.80	9.42	1.46	0.13	6.53	-98.6	45.0
35 min	11.20	9.46	1.46	0.11	6.53	-99.3	41.4
40 min	11.75	9.93	1.47	0.12	6.53	-98.9	48.8
45 min	11.75	9.99	1.47	0.12	6.52	-99.2	44.7
50 min	11.92	10.22	1.47	0.12	6.51	-100.6	40.4
55 min	12.26	10.45	1.47	0.12	6.50	-102.1	39.7
60 min							
65 min						after filter	4.91
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 12:45

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly cloudy + yellow	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	72.4	Turbidity (> 100 NTU)	39.1
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes
PFAS	3	15 ml Plastic	none	

Notes:
Started purging at 11:45
Sample collected at 12:45

RAMBOLL

Standard Groundwater Sampling Log

Date	4/25/2023		
Site Name	RACER Hemphill	Weather	Cloudy, 40s (°F)
Location	Burton, MI	Well #	OBG MW-7D
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SHE	Sampling Method	Low Flow

Well Information:

Depth of Well *	47.80	ft.
Depth to Water *	12.39	ft.
Length of Water Column	35.41	ft.
Volume of Water in Well	5.77	gal.(s)
3X Volume of Water in Well	17.32	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	12.40	9.3	0.604	--	7.71	-20.5	33.1
5 min	12.40	9.8	0.579	--	7.70	-129.1	25.4
10 min	12.40	10.0	0.573	--	7.72	-133.1	14.3
15 min	12.40	10.1	0.572	--	7.72	-136.8	10.20
20 min	12.40	10.2	0.571	--	7.72	-138.1	9.26
25 min	12.40	10.3	0.570	--	7.73	-138.8	10.50
30 min	12.40	10.3	0.570	--	7.74	-138.5	9.19
35 min	12.40	10.3	0.569	--	7.74	-139.3	9.80
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 13:00

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly Cloudy	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)		Turbidity (> 100 NTU)	9.80
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes
PFAS	3	15 ml Plastic	none	

Notes:
DO probe not working- Recording values in negative -18 - -20

RAMBOLL

Standard Groundwater Sampling Log

Date	5/1/2023		
Site Name	RACER Hemphill	Weather	Cloudy 50s (°F)
Location	Burton, MI	Well #	OBG OSMW-1
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS	Sampling Method	Low Flow

Well Information:

Depth of Well *	30.14	ft.
Depth to Water *	29.40	ft.
Length of Water Column	0.74	ft.
Volume of Water in Well	0.12	gal.(s)
3X Volume of Water in Well	0.36	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	21.79	11.45	0.93	0.83	6.48	-114.1	43.5
5 min	21.87	10.95	0.94	0.64	6.53	-115.0	36.1
10 min	21.99	10.59	0.94	0.36	6.37	-106.8	33.8
15 min	22.10	10.59	0.94	0.24	6.30	-97.0	25.5
20 min	22.16	10.40	0.95	0.25	6.21	-91.3	30.5
25 min	22.16	10.22	0.94	0.36	6.16	-86.8	37.7
30 min	22.25	9.99	0.96	0.13	6.69	-94.0	25.0
35 min	22.31	10.01	0.95	0.11	6.11	-81.3	29.3
40 min	22.39	10.05	0.95	0.09	6.15	-81.4	27.8
45 min	22.44	10.22	0.95	0.09	6.14	-80.3	24.5
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 11:00

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly cloudy/ floaters	Color	Slightly
Odor	No	Odor	No
Turbidity (> 100 NTU)	43.5	Turbidity (> 100 NTU)	24.5
Sheen/Free Product	No	Sheen/Free Product	No

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	2	40 ml Glass	HCL	
Dissolved Metals - Cu, Cr, Ni, Zn, Fe, Mn, Na	1	125 ml Plastic	HNO3	Yes
Total Metals	1	125 ml Plastic	HNO3	

Notes:

RAMBOLL

Standard Groundwater Sampling Log

Date	5/1/2023		
Site Name	RACER Hemphill	Weather	Cloudy, 50s (°F)
Location	Burton, MI	Well #	OBG OSMW-2
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS	Sampling Method	Low Flow

Well Information:

Depth of Well *	30.21	ft.
Depth to Water *	20.33	ft.
Length of Water Column	9.88	ft.
Volume of Water in Well	1.61	gal.(s)
3X Volume of Water in Well	4.83	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 0.75 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	20.51	12.73	0.86	5.11	6.60	-111.8	43.5
5 min	20.69	11.66	0.88	0.92	6.47	-105.5	35.4
10 min	21.00	10.55	0.90	0.24	6.43	-103.2	34.6
15 min	21.12	10.34	0.91	0.16	6.29	-98.4	22.9
20 min	21.29	10.36	0.90	0.14	6.30	-98.4	22.9
25 min	21.36	10.37	0.90	0.13	6.25	-95.6	21.9
30 min	21.45	10.27	0.91	0.13	6.32	-97.6	23.3
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 11:48

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear/ orange globs	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	43.5	Turbidity (> 100 NTU)	23.3
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:

RAMBOLL

Standard Groundwater Sampling Log

Date	4/27/2023		
Site Name	RACER Hemphill	Weather	Sunny, breezy, 50s (°F)
Location	Burton, MI	Well #	OBG OSMW-3
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SEH	Sampling Method	Low Flow

Well Information:

Depth of Well *	30.29	ft.
Depth to Water *	25.34	ft.
Length of Water Column	4.95	ft.
Volume of Water in Well	0.81	gal.(s)
3X Volume of Water in Well	2.42	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 0.75 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	25.34	11.97	1.07	0.86	7.16	-155.4	3.13
5 min	25.42	11.17	1.09	0.17	7.15	-208.2	2.69
10 min	25.42	11.36	1.09	0.31	7.08	-204.2	2.11
15 min	25.43	11.66	1.08	0.39	7.02	-201.3	2.04
20 min	25.42	12.22	1.08	0.38	6.94	-197.0	1.93
25 min	25.44	11.99	1.08	0.14	6.89	-194.6	2.09
30 min	25.42	11.86	1.08	0.14	6.82	-190.5	2.55
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 10:25

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Mostly clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	3.13	Turbidity (> 100 NTU)	2.55
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Purging started 9:50 A
Samples collected 10:25 A

RAMBOLL

Standard Groundwater Sampling Log

Date	4/27/2023		
Site Name	RACER Hemphill	Weather	Sunny, 50s (°F)
Location	Burton, MI	Well #	OBG OSMW-4
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS/ SEH	Sampling Method	Low Flow

Well Information:

Depth of Well *	27.76	ft.
Depth to Water *	24.30	ft.
Length of Water Column	3.46	ft.
Volume of Water in Well	0.56	gal.(s)
3X Volume of Water in Well	1.69	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	24.30	17.41	1.68	2.10	6.29	-135.8	6.50
5 min	24.33	14.32	1.74	0.39	6.04	-128.3	4.13
10 min	24.31	13.17	1.75	0.21	5.91	-122.1	5.91
15 min	24.34	12.78	1.77	0.08	5.86	-119.7	6.19
20 min	24.33	12.98	1.77	0.15	5.82	-118.7	6.18
25 min	24.31	13.03	1.77	0.24	5.76	-112.7	2.94
30 min	24.32	12.99	1.77	0.24	5.74	-111.3	4.89
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 11:45

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear, slightly cloudy	Color	Mostly Clear
Odor	Chemical type odor	Odor	Chemical type odor
Turbidity (> 100 NTU)	6.50	Turbidity (> 100 NTU)	4.89
Sheen/Free Product	None	Sheen/Free Product	None

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:
Purging started 11:05 A
Samples collected 11:45 A

RAMBOLL

Standard Groundwater Sampling Log

Date	4/27/2023		
Site Name	RACER Hemphill	Weather	Sunny, 50s (°F)
Location	Burton, MI	Well #	OBG OS MW-5
Project No.	1940103640	Evacuation Method	Peristaltic
Personnel	KBS	Sampling Method	Low Flow

Well Information:

Depth of Well *	28.15	ft.
Depth to Water *	24.63	ft.
Length of Water Column	3.52	ft.
Volume of Water in Well	0.57	gal.(s)
3X Volume of Water in Well	1.72	gal.(s)

Water Volume /ft. for:
- X 2" Diameter Well = 0.163 X LWC
- 4" Diameter Well = 0.653 X LWC
- 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 1 gal.(s)
Did well go dry? No

* Measurements taken from: X Well Casing; Protective Casing; (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: 100 mL/min pumping rate

	Drawdown measured (0.3 feet or less)	Temperature Celsius (±3%)	Conductivity mS/cm (±3%)	Dissolved Oxygen mg/L (±10% or <0.5)	pH (±0.1 pH units)	ORP mV (±10 millivolts)	Turbidity NTUs (±10% or <5)
initial	24.76	14.5	2.714	0.55	6.24	-112.5	14.7
5 min	24.74	13.7	2.723	0.18	6.27	-111.0	9.60
10 min	24.74	13.3	2.697	0.10	6.27	-110.6	7.18
15 min	24.74	13.4	2.686	0.07	6.27	-110.7	
20 min	24.74	13.4	2.661	0.04	6.28	-110.7	7.22
25 min	24.74	13.5	2.649	0.03	6.28	-110.4	7.14
30 min	24.74	13.4	2.625	0.02	6.27	-109.7	8.04
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							
65 min							
70 min							
75 min							
80 min							
85 min							
90 min							

Water Sample:
Time Collected: 10:38

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear/ black flecks	Color	Clear
Odor	Chemical odor	Odor	Chemical odor
Turbidity (> 100 NTU)	14.7	Turbidity (> 100 NTU)	8.04
Sheen/Free Product	Slight sheen	Sheen/Free Product	Slight sheen

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml Glass	HCL	
Total Metals	1	125 ml Plastic	HNO3	
Dissolved Metals	1	125 ml Plastic	HNO3	yes

Notes:

EXHIBIT B
GROUNDWATER ANALTICAL DATA

Analytical Laboratory Report

Report ID: S47965.01(01)
Generated on 05/05/2023

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Addtional Contacts: Kevin Schneider

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S47965.01-S47965.17
Project: RACER Hemphill Rd Industrial Land
Collected Date(s): 04/25/2023 - 04/27/2023
Submitted Date/Time: 04/27/2023 16:45
Sampled by: Kevin Schneider
P.O. #: 1940006990

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S47965.01	OBG MW-7S	Groundwater	04/25/23 12:45
S47965.02	OBG MW-7D	Groundwater	04/25/23 13:00
S47965.03	OBG MW-1S	Groundwater	04/25/23 14:45
S47965.04	OBG MW-3	Groundwater	04/25/23 15:45
S47965.05	OBG MW-2S	Groundwater	04/26/23 10:20
S47965.06	OBG MW-2D	Groundwater	04/26/23 11:40
S47965.07	OBG MW-6S	Groundwater	04/26/23 13:10
S47965.08	OBG MW-6D	Groundwater	04/26/23 14:20
S47965.09	OBG MW-6D MS	Groundwater	04/26/23 14:20
S47965.10	OBG MW-6D MSD	Groundwater	04/26/23 14:20
S47965.11	OBG OS MW-3	Groundwater	04/27/23 10:25
S47965.12	OBG OS MW-5	Groundwater	04/27/23 10:38
S47965.13	Field Blank-042723	Liquid	04/27/23 11:20
S47965.14	OBG OS MW-4	Groundwater	04/27/23 11:45
S47965.15	OBG MW-5S	Groundwater	04/27/23 13:52
S47965.16	DUP-042723	Groundwater	04/27/23 00:01
S47965.17	Trip Blank-042723	Liquid	04/27/23 00:01

Lab Sample ID: S47965.01
Sample Tag: OBG MW-7S
Collected Date/Time: 04/25/2023 12:45
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:26, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.009	0.002		mg/L	5	7440-38-2	
Arsenic	0.011	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.225	0.005		mg/L	5	7440-39-3	
Barium	0.237	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 16:33, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	

Lab Sample ID: S47965.01 (continued)
Sample Tag: OBG MW-7S

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 16:33, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.02
Sample Tag: OBG MW-7D
Collected Date/Time: 04/25/2023 13:00
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:27, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.034	0.002		mg/L	5	7440-38-2	
Barium	0.090	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:28, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.031	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.086	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 16:52, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.02 (continued)
Sample Tag: OBG MW-7D

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 16:52, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.03
Sample Tag: OBG MW-1S
Collected Date/Time: 04/25/2023 14:45
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:29, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.002	0.002		mg/L	5	7440-38-2	
Barium	0.173	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:30, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	Not detected	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.169	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:11, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.03 (continued)
Sample Tag: OBG MW-1S

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:11, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.04
Sample Tag: OBG MW-3
Collected Date/Time: 04/25/2023 15:45
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:31, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.012	0.002		mg/L	5	7440-38-2	
Barium	0.171	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:32, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.006	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.169	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	0.010	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:30, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.04 (continued)
Sample Tag: OBG MW-3

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:30, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	1	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.05
Sample Tag: OBG MW-2S
Collected Date/Time: 04/26/2023 10:20
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:46, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.016	0.002		mg/L	5	7440-38-2	
Barium	0.182	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:47, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.014	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.178	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:50, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.05 (continued)
Sample Tag: OBG MW-2S

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 17:50, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.06
Sample Tag: OBG MW-2D
Collected Date/Time: 04/26/2023 11:40
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:48, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.020	0.002		mg/L	5	7440-38-2	
Arsenic	0.024	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.211	0.005		mg/L	5	7440-39-3	
Barium	0.217	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:09, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	

Lab Sample ID: S47965.06 (continued)
Sample Tag: OBG MW-2D

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:09, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.07
Sample Tag: OBG MW-6S
Collected Date/Time: 04/26/2023 13:10
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:49, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.004	0.002		mg/L	5	7440-38-2	
Barium	0.130	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:50, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.003	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.130	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:29, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.07 (continued)
Sample Tag: OBG MW-6S

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:29, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.08
Sample Tag: OBG MW-6D
Collected Date/Time: 04/26/2023 14:20
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:33, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.021	0.002		mg/L	5	7440-38-2	
Barium	0.071	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:53, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.020	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.071	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:49, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.08 (continued)
Sample Tag: OBG MW-6D

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 18:49, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.09
Sample Tag: OBG MW-6D MS
Collected Date/Time: 04/26/2023 14:20
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
4	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:34, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.274	0.002		mg/L	5	7440-38-2	
Barium	0.317	0.005		mg/L	5	7440-39-3	
Lead	0.241	0.003		mg/L	5	7439-92-1	
Selenium	0.250	0.005		mg/L	5	7782-49-2	
Zinc	0.259	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:54, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.275	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.325	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	0.247	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	0.249	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	0.260	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:20, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	41	10		ug/L	1	60-29-7	1
Acetone	Not detected	50		ug/L	1	67-64-1	1
Methyl iodide	42	1		ug/L	1	74-88-4	1
Carbon disulfide	41	5		ug/L	1	75-15-0	1
tert-Methyl butyl ether (MTBE)	43	5		ug/L	1	1634-04-4	1
Acrylonitrile	46	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	45	25		ug/L	1	78-93-3	1
Dichlorodifluoromethane	44	5		ug/L	1	75-71-8	1
Chloromethane	44	5		ug/L	1	74-87-3	1
Vinyl chloride	47	1		ug/L	1	75-01-4	1
Bromomethane	35	5		ug/L	1	74-83-9	1
Chloroethane	44	5		ug/L	1	75-00-3	1
Trichlorofluoromethane	47	1		ug/L	1	75-69-4	1
1,1-Dichloroethene	42	1		ug/L	1	75-35-4	1
Methylene chloride	40	5		ug/L	1	75-09-2	1
trans-1,2-Dichloroethene	43	1		ug/L	1	156-60-5	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.09 (continued)
Sample Tag: OBG MW-6D MS

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:20, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1-Dichloroethane	42	1		ug/L	1	75-34-3	1
cis-1,2-Dichloroethene	42	1		ug/L	1	156-59-2	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Chloroform	42	1		ug/L	1	67-66-3	1
Bromochloromethane	42	1		ug/L	1	74-97-5	1
1,1,1-Trichloroethane	43	1		ug/L	1	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	1
2-Hexanone	Not detected	50		ug/L	1	591-78-6	1
Carbon tetrachloride	44	1		ug/L	1	56-23-5	1
Benzene	43	1		ug/L	1	71-43-2	1
1,2-Dichloroethane	41	1		ug/L	1	107-06-2	1
Trichloroethene	44	1		ug/L	1	79-01-6	1
1,2-Dichloropropane	43	1		ug/L	1	78-87-5	1
Bromodichloromethane	43	1		ug/L	1	75-27-4	1
Dibromomethane	44	5		ug/L	1	74-95-3	1
cis-1,3-Dichloropropene	45	1		ug/L	1	10061-01-5	1
Toluene	44	1		ug/L	1	108-88-3	1
trans-1,3-Dichloropropene	44	1		ug/L	1	10061-02-6	1
1,1,2-Trichloroethane	43	1		ug/L	1	79-00-5	1
Tetrachloroethene	45	1		ug/L	1	127-18-4	1
trans-1,4-Dichloro-2-butene	49	1		ug/L	1	110-57-6	1
Dibromochloromethane	45	5		ug/L	1	124-48-1	1
1,2-Dibromoethane	44	1		ug/L	1	106-93-4	1
Chlorobenzene	46	1		ug/L	1	108-90-7	1
1,1,1,2-Tetrachloroethane	45	1		ug/L	1	630-20-6	1
Ethylbenzene	48	1		ug/L	1	100-41-4	1
p,m-Xylene*	97	2		ug/L	1		1
o-Xylene	48	1		ug/L	1	95-47-6	1
Styrene	49	1		ug/L	1	100-42-5	1
Isopropylbenzene	49	5		ug/L	1	98-82-8	1
Bromoform	46	1		ug/L	1	75-25-2	1
1,1,2,2-Tetrachloroethane	45	1		ug/L	1	79-34-5	1
1,2,3-Trichloropropane	45	1		ug/L	1	96-18-4	1
n-Propylbenzene	49	1		ug/L	1	103-65-1	1
Bromobenzene	46	1		ug/L	1	108-86-1	1
1,3,5-Trimethylbenzene	49	1		ug/L	1	108-67-8	1
tert-Butylbenzene	48	1		ug/L	1	98-06-6	1
1,2,4-Trimethylbenzene	49	1		ug/L	1	95-63-6	1
sec-Butylbenzene	49	1		ug/L	1	135-98-8	1
p-Isopropyltoluene	50	5		ug/L	1	99-87-6	1
1,3-Dichlorobenzene	47	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	47	1		ug/L	1	106-46-7	1
1,2-Dichlorobenzene	47	1		ug/L	1	95-50-1	1
1,2,3-Trimethylbenzene	47	1		ug/L	1	526-73-8	1
n-Butylbenzene	49	1		ug/L	1	104-51-8	1
Hexachloroethane	46	5		ug/L	1	67-72-1	1
1,2-Dibromo-3-chloropropane	48	5		ug/L	1	96-12-8	1
1,2,4-Trichlorobenzene	47	5		ug/L	1	120-82-1	1
1,2,3-Trichlorobenzene	46	5		ug/L	1	87-61-6	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.09 (continued)
Sample Tag: OBG MW-6D MS

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:20, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Naphthalene	47	5		ug/L	1	91-20-3	1
2-Methylnaphthalene	43	5		ug/L	1	91-57-6	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.10
Sample Tag: OBG MW-6D MSD
Collected Date/Time: 04/26/2023 14:20
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
4	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:34, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.273	0.002		mg/L	5	7440-38-2	
Barium	0.320	0.005		mg/L	5	7440-39-3	
Lead	0.243	0.003		mg/L	5	7439-92-1	
Selenium	0.252	0.005		mg/L	5	7782-49-2	
Zinc	0.253	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:55, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.271	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.315	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	0.250	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	0.248	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	0.249	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:39, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	45	10		ug/L	1	60-29-7	1
Acetone	Not detected	50		ug/L	1	67-64-1	1
Methyl iodide	43	1		ug/L	1	74-88-4	1
Carbon disulfide	40	5		ug/L	1	75-15-0	1
tert-Methyl butyl ether (MTBE)	45	5		ug/L	1	1634-04-4	1
Acrylonitrile	47	2		ug/L	1	107-13-1	1
2-Butanone (MEK)	44	25		ug/L	1	78-93-3	1
Dichlorodifluoromethane	43	5		ug/L	1	75-71-8	1
Chloromethane	46	5		ug/L	1	74-87-3	1
Vinyl chloride	46	1		ug/L	1	75-01-4	1
Bromomethane	43	5		ug/L	1	74-83-9	1
Chloroethane	48	5		ug/L	1	75-00-3	1
Trichlorofluoromethane	44	1		ug/L	1	75-69-4	1
1,1-Dichloroethene	41	1		ug/L	1	75-35-4	1
Methylene chloride	43	5		ug/L	1	75-09-2	1
trans-1,2-Dichloroethene	42	1		ug/L	1	156-60-5	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.10 (continued)
Sample Tag: OBG MW-6D MSD

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:39, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,1-Dichloroethane	43	1		ug/L	1	75-34-3	1
cis-1,2-Dichloroethene	44	1		ug/L	1	156-59-2	1
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	1
Chloroform	43	1		ug/L	1	67-66-3	1
Bromochloromethane	44	1		ug/L	1	74-97-5	1
1,1,1-Trichloroethane	42	1		ug/L	1	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	1
2-Hexanone	Not detected	50		ug/L	1	591-78-6	1
Carbon tetrachloride	43	1		ug/L	1	56-23-5	1
Benzene	42	1		ug/L	1	71-43-2	1
1,2-Dichloroethane	42	1		ug/L	1	107-06-2	1
Trichloroethene	43	1		ug/L	1	79-01-6	1
1,2-Dichloropropane	44	1		ug/L	1	78-87-5	1
Bromodichloromethane	44	1		ug/L	1	75-27-4	1
Dibromomethane	45	5		ug/L	1	74-95-3	1
cis-1,3-Dichloropropene	46	1		ug/L	1	10061-01-5	1
Toluene	44	1		ug/L	1	108-88-3	1
trans-1,3-Dichloropropene	45	1		ug/L	1	10061-02-6	1
1,1,2-Trichloroethane	44	1		ug/L	1	79-00-5	1
Tetrachloroethene	44	1		ug/L	1	127-18-4	1
trans-1,4-Dichloro-2-butene	46	1		ug/L	1	110-57-6	1
Dibromochloromethane	45	5		ug/L	1	124-48-1	1
1,2-Dibromoethane	44	1		ug/L	1	106-93-4	1
Chlorobenzene	45	1		ug/L	1	108-90-7	1
1,1,1,2-Tetrachloroethane	44	1		ug/L	1	630-20-6	1
Ethylbenzene	45	1		ug/L	1	100-41-4	1
p,m-Xylene*	92	2		ug/L	1		1
o-Xylene	47	1		ug/L	1	95-47-6	1
Styrene	47	1		ug/L	1	100-42-5	1
Isopropylbenzene	46	5		ug/L	1	98-82-8	1
Bromoform	45	1		ug/L	1	75-25-2	1
1,1,2,2-Tetrachloroethane	44	1		ug/L	1	79-34-5	1
1,2,3-Trichloropropane	46	1		ug/L	1	96-18-4	1
n-Propylbenzene	46	1		ug/L	1	103-65-1	1
Bromobenzene	46	1		ug/L	1	108-86-1	1
1,3,5-Trimethylbenzene	47	1		ug/L	1	108-67-8	1
tert-Butylbenzene	46	1		ug/L	1	98-06-6	1
1,2,4-Trimethylbenzene	47	1		ug/L	1	95-63-6	1
sec-Butylbenzene	45	1		ug/L	1	135-98-8	1
p-Isopropyltoluene	47	5		ug/L	1	99-87-6	1
1,3-Dichlorobenzene	47	1		ug/L	1	541-73-1	1
1,4-Dichlorobenzene	46	1		ug/L	1	106-46-7	1
1,2-Dichlorobenzene	46	1		ug/L	1	95-50-1	1
1,2,3-Trimethylbenzene	46	1		ug/L	1	526-73-8	1
n-Butylbenzene	45	1		ug/L	1	104-51-8	1
Hexachloroethane	43	5		ug/L	1	67-72-1	1
1,2-Dibromo-3-chloropropane	46	5		ug/L	1	96-12-8	1
1,2,4-Trichlorobenzene	46	5		ug/L	1	120-82-1	1
1,2,3-Trichlorobenzene	46	5		ug/L	1	87-61-6	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.10 (continued)
Sample Tag: OBG MW-6D MSD

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 12:39, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Naphthalene	46	5		ug/L	1	91-20-3	1
2-Methylnaphthalene	43	5		ug/L	1	91-57-6	1

1-Spiked at 50ug/l

Lab Sample ID: S47965.11
Sample Tag: OBG OS MW-3
Collected Date/Time: 04/27/2023 10:25
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:51, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.016	0.002		mg/L	5	7440-38-2	
Barium	0.285	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 13:52, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.015	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.277	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:08, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.11 (continued)
Sample Tag: OBG OS MW-3

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:08, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.12
Sample Tag: OBG OS MW-5
Collected Date/Time: 04/27/2023 10:38
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:53, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.002	0.002		mg/L	5	7440-38-2	
Barium	2.88	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	0.011	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 14:03, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.002	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	2.75	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	0.028	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:28, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.12 (continued)
Sample Tag: OBG OS MW-5

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:28, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	5	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	3	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.13
Sample Tag: Field Blank-042723
Collected Date/Time: 04/27/2023 11:20
Matrix: Liquid
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 13:24, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	Not detected	0.002		mg/L	2	7440-38-2	
Barium	Not detected	0.005		mg/L	2	7440-39-3	
Lead	Not detected	0.003		mg/L	2	7439-92-1	
Selenium	Not detected	0.005		mg/L	2	7782-49-2	
Zinc	Not detected	0.005		mg/L	2	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:47, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	

Lab Sample ID: S47965.13 (continued)
Sample Tag: Field Blank-042723

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 19:47, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.14
Sample Tag: OBG OS MW-4
Collected Date/Time: 04/27/2023 11:45
Matrix: Groundwater
COC Reference: 169195

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 14:06, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.003	0.002		mg/L	5	7440-38-2	
Barium	1.28	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 14:07, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.003	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	1.24	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 20:07, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.14 (continued)
Sample Tag: OBG OS MW-4

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 20:07, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	S
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	S
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	S
Chlorobenzene	9	1		ug/L	1	108-90-7	S
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	S
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	S
p,m-Xylene*	Not detected	2		ug/L	1		S
o-Xylene	Not detected	1		ug/L	1	95-47-6	S
Styrene	Not detected	1		ug/L	1	100-42-5	S
Isopropylbenzene	6	5		ug/L	1	98-82-8	S
Bromoform	Not detected	1		ug/L	1	75-25-2	S
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	S
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	S
n-Propylbenzene	11	1		ug/L	1	103-65-1	S
Bromobenzene	Not detected	1		ug/L	1	108-86-1	S
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	S
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	S
1,2,4-Trimethylbenzene	1	1		ug/L	1	95-63-6	S
sec-Butylbenzene	3	1		ug/L	1	135-98-8	S
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	S
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	S
1,4-Dichlorobenzene	6	1		ug/L	1	106-46-7	S
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	S
1,2,3-Trimethylbenzene	3	1		ug/L	1	526-73-8	S
n-Butylbenzene	2	1		ug/L	1	104-51-8	S
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	S
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	S
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	S
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	S
Naphthalene	11	5		ug/L	1	91-20-3	S

S-Surrogate recovery outside of control limits

Lab Sample ID: S47965.14 (continued)
Sample Tag: OBG OS MW-4

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 20:07, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
2-Methylnaphthalene	59	5		ug/L	1	91-57-6	S

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/02/23 19:09, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	50		ug/L	5	60-29-7	Y
Acetone	Not detected	250		ug/L	5	67-64-1	Y
Methyl iodide	Not detected	5		ug/L	5	74-88-4	Y
Carbon disulfide	Not detected	30		ug/L	5	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	30		ug/L	5	1634-04-4	Y
Acrylonitrile	Not detected	10		ug/L	5	107-13-1	Y
2-Butanone (MEK)	Not detected	130		ug/L	5	78-93-3	Y
Dichlorodifluoromethane	Not detected	30		ug/L	5	75-71-8	Y
Chloromethane	Not detected	30		ug/L	5	74-87-3	Y
Vinyl chloride	Not detected	5		ug/L	5	75-01-4	Y
Bromomethane	Not detected	30		ug/L	5	74-83-9	Y
Chloroethane	Not detected	30		ug/L	5	75-00-3	Y
Trichlorofluoromethane	Not detected	5		ug/L	5	75-69-4	Y
1,1-Dichloroethene	Not detected	5		ug/L	5	75-35-4	Y
Methylene chloride	Not detected	30		ug/L	5	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	5		ug/L	5	156-60-5	Y
1,1-Dichloroethane	Not detected	5		ug/L	5	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	5		ug/L	5	156-59-2	Y
Tetrahydrofuran*	Not detected	450		ug/L	5	109-99-9	Y
Chloroform	Not detected	5		ug/L	5	67-66-3	Y
Bromochloromethane	Not detected	5		ug/L	5	74-97-5	Y
1,1,1-Trichloroethane	Not detected	5		ug/L	5	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	250		ug/L	5	108-10-1	Y
2-Hexanone	Not detected	250		ug/L	5	591-78-6	Y
Carbon tetrachloride	Not detected	5		ug/L	5	56-23-5	Y
Benzene	Not detected	5		ug/L	5	71-43-2	Y
1,2-Dichloroethane	Not detected	5		ug/L	5	107-06-2	Y
Trichloroethene	Not detected	5		ug/L	5	79-01-6	Y
1,2-Dichloropropane	Not detected	5		ug/L	5	78-87-5	Y
Bromodichloromethane	Not detected	5		ug/L	5	75-27-4	Y
Dibromomethane	Not detected	30		ug/L	5	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	5		ug/L	5	10061-01-5	Y
Toluene	Not detected	5		ug/L	5	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	5		ug/L	5	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	5		ug/L	5	79-00-5	Y
Tetrachloroethene	Not detected	5		ug/L	5	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	5		ug/L	5	110-57-6	Y
Dibromochloromethane	Not detected	30		ug/L	5	124-48-1	Y
1,2-Dibromoethane	Not detected	5		ug/L	5	106-93-4	Y
Chlorobenzene	8	5		ug/L	5	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	5		ug/L	5	630-20-6	Y
Ethylbenzene	Not detected	5		ug/L	5	100-41-4	Y
p,m-Xylene*	Not detected	10		ug/L	5		Y
o-Xylene	Not detected	5		ug/L	5	95-47-6	Y

S-Surrogate recovery outside of control limits
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S47965.14 (continued)
Sample Tag: OBG OS MW-4

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 05/02/23 19:09, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Styrene	Not detected	5		ug/L	5	100-42-5	Y
Isopropylbenzene	Not detected	30		ug/L	5	98-82-8	Y
Bromoform	Not detected	5		ug/L	5	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	5		ug/L	5	79-34-5	Y
1,2,3-Trichloropropane	Not detected	5		ug/L	5	96-18-4	Y
n-Propylbenzene	10	5		ug/L	5	103-65-1	Y
Bromobenzene	Not detected	5		ug/L	5	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	5		ug/L	5	108-67-8	Y
tert-Butylbenzene	Not detected	5		ug/L	5	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	5		ug/L	5	95-63-6	Y
sec-Butylbenzene	Not detected	5		ug/L	5	135-98-8	Y
p-Isopropyltoluene	Not detected	30		ug/L	5	99-87-6	Y
1,3-Dichlorobenzene	Not detected	5		ug/L	5	541-73-1	Y
1,4-Dichlorobenzene	Not detected	5		ug/L	5	106-46-7	Y
1,2-Dichlorobenzene	Not detected	5		ug/L	5	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	5		ug/L	5	526-73-8	Y
n-Butylbenzene	Not detected	5		ug/L	5	104-51-8	Y
Hexachloroethane	Not detected	30		ug/L	5	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	30		ug/L	5	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	30		ug/L	5	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	30		ug/L	5	87-61-6	Y
Naphthalene	Not detected	30		ug/L	5	91-20-3	Y
2-Methylnaphthalene	40	30		ug/L	5	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S47965.15
Sample Tag: OBG MW-5S
Collected Date/Time: 04/27/2023 13:52
Matrix: Groundwater
COC Reference: 169193

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 09:56	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 14:08, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.004	0.002		mg/L	5	7440-38-2	
Barium	1.07	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	0.007	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/01/23 14:09, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.003	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	1.06	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 15:28, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S47965.15 (continued)
Sample Tag: OBG MW-5S

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 15:28, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	1	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.16
Sample Tag: DUP-042723
Collected Date/Time: 04/27/2023 00:01
Matrix: Groundwater
COC Reference: 169193

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	2.0	IR
3	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 09:56	ACK	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	
Metal Digestion	Completed	SW3015A	05/01/23 12:10	CCM	

Metals

Method: E200.8, Run Date: 05/01/23 14:11, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.003	0.002		mg/L	5	7440-38-2	
Arsenic	0.003	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	1.05	0.005		mg/L	5	7440-39-3	
Barium	1.07	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	
Zinc	0.020	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 15:52, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	

Lab Sample ID: S47965.16 (continued)
Sample Tag: DUP-042723

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 15:52, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	1	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S47965.17
Sample Tag: Trip Blank-042723
Collected Date/Time: 04/27/2023 00:01
Matrix: Liquid
COC Reference: 169193

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	2.0	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/02/23 09:56	ACK	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 13:55, Analyst: WAT

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S47965.17 (continued)
Sample Tag: Trip Blank-042723

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/01/23 13:55, Analyst: WAT (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID: S47965
Client: RAMBOLL (Ramboll Americas - Michigan)
Project: RACER Hemphill Rd Industrial Land
Submitted: 04/27/2023 16:45 Login User: MMC

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	IR 2.0
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[X] Yes	[ ] No	[ ] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[X] No	[ ] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Prepared by Merit Laboratories

Merit Laboratories Bottle Preservation Check

Lab Set ID: S47965 Submitted: 04/27/2023 16:45

Client: RAMBOLL (Ramboll Americas - Michigan)

Project: RACER Hemphill Rd Industrial Land

Initial Preservation Check: 04/28/2023 09:17 MMC

Preservation Recheck (E200.8): 05/01/2023 08:51 MMC

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S47965.01	125ml Plastic HNO3	<2			
S47965.01	125ml Plastic HNO3	<2			
S47965.02	125ml Plastic HNO3	<2			
S47965.02	125ml Plastic HNO3	<2			
S47965.03	125ml Plastic HNO3	<2			
S47965.03	125ml Plastic HNO3	<2			
S47965.04	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.04	125ml Plastic HNO3	<2			
S47965.05	125ml Plastic HNO3	<2			
S47965.05	125ml Plastic HNO3	<2			
S47965.06	125ml Plastic HNO3	<2			
S47965.06	125ml Plastic HNO3	<2			
S47965.07	125ml Plastic HNO3	<2			
S47965.07	125ml Plastic HNO3	<2			
S47965.08	125ml Plastic HNO3	<2			
S47965.08	125ml Plastic HNO3	<2			
S47965.09	125ml Plastic HNO3	<2			
S47965.09	125ml Plastic HNO3	<2			
S47965.10	125ml Plastic HNO3	<2			
S47965.10	125ml Plastic HNO3	<2			
S47965.11	125ml Plastic HNO3	<2			
S47965.11	125ml Plastic HNO3	<2			
S47965.12	125ml Plastic HNO3	6	0.5	<2	Lot# 2022042218
S47965.12	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.13	125ml Plastic HNO3	<2			
S47965.14	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.14	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.15	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.15	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218

Merit Laboratories Bottle Preservation Check

Lab Set ID: S47965 Submitted: 04/27/2023 16:45
Client: RAMBOLL (Ramboll Americas - Michigan)
Project: RACER Hemphill Rd Industrial Land

Initial Preservation Check: 04/28/2023 09:17 MMC
Preservation Recheck (E200.8): 05/01/2023 08:51 MMC

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S47965.16	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218
S47965.16	125ml Plastic HNO3	7	0.5	<2	Lot# 2022042218

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

169195

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: CELL NO.: 313-333-0211 P.O. NO.:
E-MAIL ADDRESS: Clifford.Yantz@Ramboll.com Kevin.Schneider@Ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RALER Hemphill Rd Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb, Se, Zn	DISSOLVED As, Ba, Pb, Se, Zn	Special Instructions
47965.01	4/25/23	1245	OBG MW-7S	GW	5		3	2					X	X	X	Dissolved Metals
.02	4/25/23	1300	OBG MW-7D	GW	5		3	2					X	X	X	were field Filtered
.03	4/25/23	1445	OBG MW-1S	GW	5		3	2					X	X	X	
.04	4/25/23	1545	OBG MW-3	GW	5		3	2					X	X	X	
.05	4/26/23	1020	OBG MW-2S	GW	5		3	2					X	X	X	
.06	4/26/23	1140	OBG MW-2D	GW	5		3	2					X	X	X	
.07	4/26/23	1310	OBG MW-6S	GW	5		3	2					X	X	X	
.08/.09/.10	4/26/23	1420	OBG MW-6D (MS/MSD)	GW	17		11	6					X	X	X	
.11 .09	4/27/23	1025	OBG OS MW-3	GW	5		3	2					X	X	X	
.12 .10	4/27/23	1038	OBG OS MW-5	GW	5		3	2					X	X	X	
.13 .11	4/27/23	1120	Field Blank-042723	L	4		3	1					X	X		
.14 .12	4/27/23	1145	OBG OSMW-4	GW	5		3	2					X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION (mc)	X Sampler	DATE 4/27/23	TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1645
RECEIVED BY: SIGNATURE/ORGANIZATION Johanne Murray		DATE 4/27/23	TIME 1645

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

169193

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yuntz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: 313-333-0211 CELL NO.: P.O. NO.:
E-MAIL ADDRESS: clifford.yuntz@ramboll.com / kevin.schneider@ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Kenpshill Road Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb	Dissolved As, Ba, Pb
479615	4/27/23	1352	OBG MW-55	GW	5		3	2					X	X	X
16	4/27/23	—	DUP-042723	GW	5		3	2					X	X	X
17	4/27/23	—	Trip Blank-042723	L	1		1						X		

Special Instructions: Dissolved Metals were field filtered

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/27/23	TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1542
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1645
RECEIVED BY: SIGNATURE/ORGANIZATION Johanna Murray		DATE 4/27/23	TIME 1645

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Quality Control Report

Report ID: QC-S47965-01
Generated on 05/05/2023

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S47965.01-S47965.17
Project: RACER Hemphill Rd Industrial Land
Submitted Date/Time: 04/27/2023 16:45
Sampled by: Kevin Schneider
P.O. #: 1940006990

QC Report Sections

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S47965.01
Sample Tag: OBG MW-7S
Collected Date/Time: 04/25/2023 12:45
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:26	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 16:33	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.02
Sample Tag: OBG MW-7D
Collected Date/Time: 04/25/2023 13:00
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:27	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:27	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:27	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:27	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:27	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 16:52	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.03
Sample Tag: OBG MW-1S
Collected Date/Time: 04/25/2023 14:45
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:29	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:29	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:29	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:29	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:29	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:11	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.04
Sample Tag: OBG MW-3
Collected Date/Time: 04/25/2023 15:45
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:31	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:31	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:31	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:31	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:31	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:30	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.05
Sample Tag: OBG MW-2S
Collected Date/Time: 04/26/2023 10:20
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:46	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:46	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:46	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:46	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:46	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:50	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.06
Sample Tag: OBG MW-2D
Collected Date/Time: 04/26/2023 11:40
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:48	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:09	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.07
Sample Tag: OBG MW-6S
Collected Date/Time: 04/26/2023 13:10
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:49	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:49	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:49	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:49	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:49	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:29	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.08
Sample Tag: OBG MW-6D
Collected Date/Time: 04/26/2023 14:20
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:33	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:33	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:33	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:33	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:33	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:49	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

Lab Sample ID: S47965.09

Sample Tag: OBG MW-6D MS

Collected Date/Time: 04/26/2023 14:20

Matrix: Groundwater

COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 12:20	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

Lab Sample ID: S47965.10
Sample Tag: OBG MW-6D MSD
Collected Date/Time: 04/26/2023 14:20
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:34	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 12:39	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

Lab Sample ID: S47965.11
Sample Tag: OBG OS MW-3
Collected Date/Time: 04/27/2023 10:25
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:51	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:51	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:51	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:51	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:51	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:08	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.12
Sample Tag: OBG OS MW-5
Collected Date/Time: 04/27/2023 10:38
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:53	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:28	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

Lab Sample ID: S47965.13

Sample Tag: Field Blank-042723

Collected Date/Time: 04/27/2023 11:20

Matrix: Liquid

COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic	E200.8	05/01/23 13:24	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 13:24	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 13:24	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 13:24	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 13:24	MT4-23-0501C	MTD-050123-4	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:47	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS

QC Report - Analysis Summary

Lab Sample ID: S47965.14
Sample Tag: OBG OS MW-4
Collected Date/Time: 04/27/2023 11:45
Matrix: Groundwater
COC Reference: 169195

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 14:06	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 14:06	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 14:06	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 14:06	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 14:06	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 20:07	230501A9	VD230501W2	Yes	BLK/LCS/LCSD/MS/MS
Volatile Organics - DEQ List (Replicate 01)	SW5030C/8260C	05/02/23 19:09	230502A9	VD230502W2	Yes	BLK/LCS/LCSD

Lab Sample ID: S47965.15
Sample Tag: OBG MW-5S
Collected Date/Time: 04/27/2023 13:52
Matrix: Groundwater
COC Reference: 169193

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 14:08	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 14:08	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 14:08	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 14:08	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 14:08	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 15:28	230501A7	VF230501W1	Yes	BLK/LCS/LCSD

Lab Sample ID: S47965.16

Sample Tag: DUP-042723

Collected Date/Time: 04/27/2023 00:01

Matrix: Groundwater

COC Reference: 169193

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Barium	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Lead	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/01/23 14:11	MT4-23-0501C	MTD-050123-5	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 15:52	230501A7	VF230501W1	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S47965.17
Sample Tag: Trip Blank-042723
Collected Date/Time: 04/27/2023 00:01
Matrix: Liquid
COC Reference: 169193

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 13:55	230501A7	VF230501W1	Yes	BLK/LCS/LCSD

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-050123-4

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.01	Arsenic, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Arsenic	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Barium, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Barium	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Lead, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Lead	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Selenium, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Selenium	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Zinc, Dissolved	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.01	Zinc	E200.8	05/01/23 13:26	MT4-23-0501C
S47965.02	Arsenic, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C
S47965.02	Arsenic	E200.8	05/01/23 13:27	MT4-23-0501C
S47965.02	Barium, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C
S47965.02	Barium	E200.8	05/01/23 13:27	MT4-23-0501C
S47965.02	Lead, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C
S47965.02	Lead	E200.8	05/01/23 13:27	MT4-23-0501C
S47965.02	Selenium, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C
S47965.02	Selenium	E200.8	05/01/23 13:27	MT4-23-0501C
S47965.02	Zinc, Dissolved	E200.8	05/01/23 13:28	MT4-23-0501C
S47965.02	Zinc	E200.8	05/01/23 13:27	MT4-23-0501C
S47965.03	Arsenic, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C
S47965.03	Arsenic	E200.8	05/01/23 13:29	MT4-23-0501C
S47965.03	Barium, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C
S47965.03	Barium	E200.8	05/01/23 13:29	MT4-23-0501C
S47965.03	Lead, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C
S47965.03	Lead	E200.8	05/01/23 13:29	MT4-23-0501C
S47965.03	Selenium, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C
S47965.03	Selenium	E200.8	05/01/23 13:29	MT4-23-0501C
S47965.03	Zinc, Dissolved	E200.8	05/01/23 13:30	MT4-23-0501C
S47965.03	Zinc	E200.8	05/01/23 13:29	MT4-23-0501C
S47965.04	Arsenic, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C
S47965.04	Arsenic	E200.8	05/01/23 13:31	MT4-23-0501C
S47965.04	Barium, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C
S47965.04	Barium	E200.8	05/01/23 13:31	MT4-23-0501C
S47965.04	Lead, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C
S47965.04	Lead	E200.8	05/01/23 13:31	MT4-23-0501C
S47965.04	Selenium, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C
S47965.04	Selenium	E200.8	05/01/23 13:31	MT4-23-0501C
S47965.04	Zinc, Dissolved	E200.8	05/01/23 13:32	MT4-23-0501C
S47965.04	Zinc	E200.8	05/01/23 13:31	MT4-23-0501C
S47965.05	Arsenic, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C
S47965.05	Arsenic	E200.8	05/01/23 13:46	MT4-23-0501C
S47965.05	Barium, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C
S47965.05	Barium	E200.8	05/01/23 13:46	MT4-23-0501C
S47965.05	Lead, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C
S47965.05	Lead	E200.8	05/01/23 13:46	MT4-23-0501C
S47965.05	Selenium, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C
S47965.05	Selenium	E200.8	05/01/23 13:46	MT4-23-0501C
S47965.05	Zinc, Dissolved	E200.8	05/01/23 13:47	MT4-23-0501C
S47965.05	Zinc	E200.8	05/01/23 13:46	MT4-23-0501C

Metals, Prep Batch ID: MTD-050123-4 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.06	Arsenic, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Arsenic	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Barium, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Barium	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Lead, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Lead	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Selenium, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Selenium	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Zinc, Dissolved	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.06	Zinc	E200.8	05/01/23 13:48	MT4-23-0501C
S47965.07	Arsenic, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C
S47965.07	Arsenic	E200.8	05/01/23 13:49	MT4-23-0501C
S47965.07	Barium, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C
S47965.07	Barium	E200.8	05/01/23 13:49	MT4-23-0501C
S47965.07	Lead, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C
S47965.07	Lead	E200.8	05/01/23 13:49	MT4-23-0501C
S47965.07	Selenium, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C
S47965.07	Selenium	E200.8	05/01/23 13:49	MT4-23-0501C
S47965.07	Zinc, Dissolved	E200.8	05/01/23 13:50	MT4-23-0501C
S47965.07	Zinc	E200.8	05/01/23 13:49	MT4-23-0501C
S47965.08	Arsenic, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.08	Arsenic	E200.8	05/01/23 13:33	MT4-23-0501C
S47965.08	Barium, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.08	Barium	E200.8	05/01/23 13:33	MT4-23-0501C
S47965.08	Lead, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.08	Lead	E200.8	05/01/23 13:33	MT4-23-0501C
S47965.08	Selenium, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.08	Selenium	E200.8	05/01/23 13:33	MT4-23-0501C
S47965.08	Zinc, Dissolved	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.08	Zinc	E200.8	05/01/23 13:33	MT4-23-0501C
S47965.09	Arsenic, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C
S47965.09	Arsenic	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.09	Barium, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C
S47965.09	Barium	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.09	Lead, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C
S47965.09	Lead	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.09	Selenium, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C
S47965.09	Selenium	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.09	Zinc, Dissolved	E200.8	05/01/23 13:54	MT4-23-0501C
S47965.09	Zinc	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.10	Arsenic, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C
S47965.10	Arsenic	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.10	Barium, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C
S47965.10	Barium	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.10	Lead, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C
S47965.10	Lead	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.10	Selenium, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C
S47965.10	Selenium	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.10	Zinc, Dissolved	E200.8	05/01/23 13:55	MT4-23-0501C

Metals, Prep Batch ID: MTD-050123-4 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.10	Zinc	E200.8	05/01/23 13:34	MT4-23-0501C
S47965.11	Arsenic, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C
S47965.11	Arsenic	E200.8	05/01/23 13:51	MT4-23-0501C
S47965.11	Barium, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C
S47965.11	Barium	E200.8	05/01/23 13:51	MT4-23-0501C
S47965.11	Lead, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C
S47965.11	Lead	E200.8	05/01/23 13:51	MT4-23-0501C
S47965.11	Selenium, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C
S47965.11	Selenium	E200.8	05/01/23 13:51	MT4-23-0501C
S47965.11	Zinc, Dissolved	E200.8	05/01/23 13:52	MT4-23-0501C
S47965.11	Zinc	E200.8	05/01/23 13:51	MT4-23-0501C
S47965.12	Arsenic	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.12	Barium	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.12	Lead	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.12	Selenium	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.12	Zinc	E200.8	05/01/23 13:53	MT4-23-0501C
S47965.13	Arsenic	E200.8	05/01/23 13:24	MT4-23-0501C
S47965.13	Barium	E200.8	05/01/23 13:24	MT4-23-0501C
S47965.13	Lead	E200.8	05/01/23 13:24	MT4-23-0501C
S47965.13	Selenium	E200.8	05/01/23 13:24	MT4-23-0501C
S47965.13	Zinc	E200.8	05/01/23 13:24	MT4-23-0501C

Metals, Prep Batch ID: MTD-050123-5

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.12	Arsenic, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C
S47965.12	Barium, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C
S47965.12	Lead, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C
S47965.12	Selenium, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C
S47965.12	Zinc, Dissolved	E200.8	05/01/23 14:03	MT4-23-0501C
S47965.14	Arsenic, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C
S47965.14	Arsenic	E200.8	05/01/23 14:06	MT4-23-0501C
S47965.14	Barium, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C
S47965.14	Barium	E200.8	05/01/23 14:06	MT4-23-0501C
S47965.14	Lead, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C
S47965.14	Lead	E200.8	05/01/23 14:06	MT4-23-0501C
S47965.14	Selenium, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C
S47965.14	Selenium	E200.8	05/01/23 14:06	MT4-23-0501C
S47965.14	Zinc, Dissolved	E200.8	05/01/23 14:07	MT4-23-0501C
S47965.14	Zinc	E200.8	05/01/23 14:06	MT4-23-0501C
S47965.15	Arsenic, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C
S47965.15	Arsenic	E200.8	05/01/23 14:08	MT4-23-0501C
S47965.15	Barium, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C
S47965.15	Barium	E200.8	05/01/23 14:08	MT4-23-0501C
S47965.15	Lead, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C
S47965.15	Lead	E200.8	05/01/23 14:08	MT4-23-0501C
S47965.15	Selenium, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C
S47965.15	Selenium	E200.8	05/01/23 14:08	MT4-23-0501C
S47965.15	Zinc, Dissolved	E200.8	05/01/23 14:09	MT4-23-0501C

Metals, Prep Batch ID: MTD-050123-5 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.15	Zinc	E200.8	05/01/23 14:08	MT4-23-0501C
S47965.16	Arsenic, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Arsenic	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Barium, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Barium	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Lead, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Lead	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Selenium, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Selenium	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Zinc, Dissolved	E200.8	05/01/23 14:11	MT4-23-0501C
S47965.16	Zinc	E200.8	05/01/23 14:11	MT4-23-0501C

Organics - Volatiles, Prep Batch ID: VD230501W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.01	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 16:33	230501A9
S47965.02	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 16:52	230501A9
S47965.03	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:11	230501A9
S47965.04	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:30	230501A9
S47965.05	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 17:50	230501A9
S47965.06	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:09	230501A9
S47965.07	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:29	230501A9
S47965.08	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 18:49	230501A9
S47965.09	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 12:20	230501A9
S47965.10	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 12:39	230501A9
S47965.11	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:08	230501A9
S47965.12	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:28	230501A9
S47965.13	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 19:47	230501A9
S47965.14	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 20:07	230501A9

Organics - Volatiles, Prep Batch ID: VD230502W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.14	Volatile Organics - DEQ List (Replicate 01)	SW5030C/8260C	05/02/23 19:09	230502A9

Organics - Volatiles, Prep Batch ID: VF230501W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S47965.15	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 15:28	230501A7
S47965.16	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 15:52	230501A7
S47965.17	Volatile Organics - DEQ List	SW5030C/8260C	05/01/23 13:55	230501A7

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.01

Sample Tag: OBG MW-7S

Collected Date/Time: 04/25/2023 12:45

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 16:33, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**92.8**	80.0	124.0
1,2-Dichloroethane-D4		**100.9**	72.0	125.0
Toluene-D8		**93.7**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.02

Sample Tag: OBG MW-7D

Collected Date/Time: 04/25/2023 13:00

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 16:52, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**91.0**	80.0	124.0
1,2-Dichloroethane-D4		**96.7**	72.0	125.0
Toluene-D8		**93.9**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.03

Sample Tag: OBG MW-1S

Collected Date/Time: 04/25/2023 14:45

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 17:11, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**90.4**	80.0	124.0
1,2-Dichloroethane-D4		**91.7**	72.0	125.0
Toluene-D8		**95.1**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.04

Sample Tag: OBG MW-3

Collected Date/Time: 04/25/2023 15:45

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 17:30, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**90.8**	80.0	124.0
1,2-Dichloroethane-D4		**96.6**	72.0	125.0
Toluene-D8		**94.1**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.05

Sample Tag: OBG MW-2S

Collected Date/Time: 04/26/2023 10:20

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 17:50, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**91.3**	80.0	124.0
1,2-Dichloroethane-D4		**96.1**	72.0	125.0
Toluene-D8		**94.7**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.06

Sample Tag: OBG MW-2D

Collected Date/Time: 04/26/2023 11:40

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 18:09, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**90.9**	80.0	124.0
1,2-Dichloroethane-D4		**91.6**	72.0	125.0
Toluene-D8		**93.6**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.07

Sample Tag: OBG MW-6S

Collected Date/Time: 04/26/2023 13:10

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 18:29, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**91.0**	80.0	124.0
1,2-Dichloroethane-D4		**93.9**	72.0	125.0
Toluene-D8		**94.1**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.08

Sample Tag: OBG MW-6D

Collected Date/Time: 04/26/2023 14:20

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 18:49, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**90.2**	80.0	124.0
1,2-Dichloroethane-D4		**92.9**	72.0	125.0
Toluene-D8		**93.3**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.11

Sample Tag: OBG OS MW-3

Collected Date/Time: 04/27/2023 10:25

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 19:08, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**92.6**	80.0	124.0
1,2-Dichloroethane-D4		**96.0**	72.0	125.0
Toluene-D8		**93.1**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.12

Sample Tag: OBG OS MW-5

Collected Date/Time: 04/27/2023 10:38

Matrix: Groundwater

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 19:28, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**91.9**	80.0	124.0
1,2-Dichloroethane-D4		**88.5**	72.0	125.0
Toluene-D8		**93.6**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.13

Sample Tag: Field Blank-042723

Collected Date/Time: 04/27/2023 11:20

Matrix: Liquid

COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A9, Run Date: 05/01/2023 19:47, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**92.1**	80.0	124.0
1,2-Dichloroethane-D4		**95.3**	72.0	125.0
Toluene-D8		**93.3**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.14
Sample Tag: OBG OS MW-4
Collected Date/Time: 04/27/2023 11:45
Matrix: Groundwater
COC Reference: 169195

Organics - Volatiles, Analysis: Volatile Organics - DEQ List
Run in Batch: 230501A9, Run Date: 05/01/2023 20:07, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene	*	**75.9**	80.0	124.0
1,2-Dichloroethane-D4		**88.7**	72.0	125.0
Toluene-D8		**95.0**	89.0	112.0

Organics - Volatiles, Analysis: Volatile Organics - DEQ List (Replicate 01)
Run in Batch: 230502A9, Run Date: 05/02/2023 19:09, Matrix: WW, Dilution: 5

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**89.7**	80.0	124.0
1,2-Dichloroethane-D4		**99.5**	72.0	125.0
Toluene-D8		**94.0**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.15

Sample Tag: OBG MW-5S

Collected Date/Time: 04/27/2023 13:52

Matrix: Groundwater

COC Reference: 169193

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A7, Run Date: 05/01/2023 15:28, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.4**	80.0	124.0
1,2-Dichloroethane-D4		**80.6**	72.0	125.0
Toluene-D8		**94.3**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.16

Sample Tag: DUP-042723

Collected Date/Time: 04/27/2023 00:01

Matrix: Groundwater

COC Reference: 169193

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A7, Run Date: 05/01/2023 15:52, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.0**	80.0	124.0
1,2-Dichloroethane-D4		**84.2**	72.0	125.0
Toluene-D8		**94.5**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S47965.17

Sample Tag: Trip Blank-042723

Collected Date/Time: 04/27/2023 00:01

Matrix: Liquid

COC Reference: 169193

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230501A7, Run Date: 05/01/2023 13:55, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.2**	80.0	124.0
1,2-Dichloroethane-D4		**83.6**	72.0	125.0
Toluene-D8		**95.3**	89.0	112.0

Organics - Volatiles, Prep Batch ID: VD230501W2

QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 230501A9.BLKW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 13:38, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**92.1**	80.0	124.0
1,2-Dichloroethane-D4		**100.5**	72.0	125.0
Toluene-D8		**93.8**	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 11:41, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**94.8**	80.0	124.0
1,2-Dichloroethane-D4		**87.3**	72.0	125.0
Toluene-D8		**93.0**	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230501A9.LCSDW01A, Parent Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 12:01, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**96.3**	80.0	124.0
1,2-Dichloroethane-D4		**91.1**	72.0	125.0
Toluene-D8		**92.5**	89.0	112.0

Matrix Spike (MS)

Lab Sample ID: 230501A9.4796509M, Parent Sample ID: S47965.08

Run in Batch: 230501A9, Run Date: 05/01/2023 12:20, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**94.2**	80.0	124.0
1,2-Dichloroethane-D4		**86.9**	72.0	125.0
Toluene-D8		**92.1**	89.0	112.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: 230501A9.4796510N, Parent Sample ID: 230501A9.4796509M

Run in Batch: 230501A9, Run Date: 05/01/2023 12:39, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**94.5**	80.0	124.0
1,2-Dichloroethane-D4		**93.6**	72.0	125.0
Toluene-D8		**92.9**	89.0	112.0

Organics - Volatiles, Prep Batch ID: VD230502W2

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230502A9.BLKW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 13:37, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**87.9**	80.0	124.0
1,2-Dichloroethane-D4		**96.2**	72.0	125.0
Toluene-D8		**94.1**	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:20, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**89.5**	80.0	124.0
1,2-Dichloroethane-D4		**92.8**	72.0	125.0
Toluene-D8		**93.6**	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230502A9.LCSDW02A, Parent Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:39, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**90.0**	80.0	124.0
1,2-Dichloroethane-D4		**89.9**	72.0	125.0
Toluene-D8		**93.4**	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF230501W1

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230501A7.BLKW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 13:31, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.7**	80.0	124.0
1,2-Dichloroethane-D4		**82.3**	72.0	125.0
Toluene-D8		**94.5**	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 11:58, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**109.2**	80.0	124.0
1,2-Dichloroethane-D4		**80.2**	72.0	125.0
Toluene-D8		**94.9**	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230501A7.LCSDW01A, Parent Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 12:21, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**108.8**	80.0	124.0
1,2-Dichloroethane-D4		**84.6**	72.0	125.0
Toluene-D8		**93.5**	89.0	112.0

Metals, Prep Batch ID: MTD-050123-4

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-23-0501C.018.LRB

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:22, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Barium		ND	0.001	mg/L
Lead		ND	0.0006	mg/L
Selenium		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-23-0501C.017.LCS

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:21, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	85	115
Barium		97	85	115
Lead		102	85	115
Selenium		101	85	115
Zinc		100	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-23-0501C.030.MS, Parent Sample ID: S47965.08

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:34, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	75	125
Barium		98	75	125
Lead		96	75	125
Selenium		100	75	125
Zinc		104	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-23-0501C.044.MS, Parent Sample ID: S47965.08

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:54, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	75	125
Barium		102	75	125
Lead		99	75	125
Selenium		100	75	125
Zinc		104	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-23-0501C.031.MSD, Parent Sample ID: MT4-23-0501C.030.MS

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:34, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		101	75	125	0	20
Barium		100	75	125	1	20
Lead		97	75	125	1	20
Selenium		101	75	125	1	20
Zinc		101	75	125	2	20

Metals, Prep Batch ID: MTD-050123-4 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-23-0501C.045.MSD, Parent Sample ID: MT4-23-0501C.044.MS

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:55, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		100	75	125	1	20
Barium		98	75	125	3	20
Lead		100	75	125	1	20
Selenium		99	75	125	0	20
Zinc		100	75	125	4	20

Metals, Prep Batch ID: MTD-050123-5

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-23-0501C.049.LRB

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 14:00, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Barium		ND	0.001	mg/L
Lead		ND	0.0006	mg/L
Selenium		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-23-0501C.048.LCS

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 13:59, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		96	85	115
Barium		96	85	115
Lead		100	85	115
Selenium		93	85	115
Zinc		98	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-23-0501C.059.MS, Parent Sample ID: S47965.16

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 14:14, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		100	75	125
Barium		104	75	125
Lead		93	75	125
Selenium		97	75	125
Zinc		98	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-23-0501C.060.MSD, Parent Sample ID: MT4-23-0501C.059.MS

Run in Batch: MT4-23-0501C, Run Date: 05/01/2023 14:15, Prep Date: 05/01/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		98	75	125	2	20
Barium		108	75	125	1	20
Lead		93	75	125	0	20
Selenium		100	75	125	3	20
Zinc		98	75	125	0	20

Organics - Volatiles, Prep Batch ID: VD230501W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK)

Lab Sample ID: 230501A9.BLKW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 13:38, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	1.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Blank (BLK) (continued)

Lab Sample ID: 230501A9.BLKW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 13:38, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 11:41, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		84.3	67.4	121.2
Acetone		100.5	29.9	161.5
Methyl iodide		84.6	68.8	116.4
Carbon disulfide		80.8	63.8	137.4
tert-Methyl butyl ether (MTBE)		86.8	73.2	122.4
Acrylonitrile		99.3	69.9	128.9
2-Butanone (MEK)		101.5	44.0	134.4
Dichlorodifluoromethane		86.7	10.0	222.8
Chloromethane		89.7	23.8	166.5
Vinyl chloride		93.4	43.5	149.1
Bromomethane		87.3	56.8	151.3
Chloroethane		95.9	53.4	149.4
Trichlorofluoromethane		96.6	59.7	151.8
1,1-Dichloroethene		83.2	69.6	139.4
Methylene chloride		81.6	73.3	121.1
trans-1,2-Dichloroethene		85.3	73.6	129.3
1,1-Dichloroethane		85.6	71.5	126.2
cis-1,2-Dichloroethene		85.9	76.6	122.1
Tetrahydrofuran		94.1	59.0	117.9
Chloroform		84.6	78.4	124.0

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 11:41, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		83.2	78.2	120.8
1,1,1-Trichloroethane		84.1	79.4	130.9
4-Methyl-2-pentanone (MIBK)		95.9	71.6	125.2
2-Hexanone		100.5	55.4	136.9
Carbon tetrachloride		88.0	72.6	133.0
Benzene		87.7	79.9	124.9
1,2-Dichloroethane		83.7	76.0	126.3
Trichloroethene		89.6	79.7	124.2
1,2-Dichloropropane		86.8	78.6	126.4
Bromodichloromethane		87.9	80.4	128.2
Dibromomethane		90.2	76.9	122.1
cis-1,3-Dichloropropene		89.7	79.8	129.9
Toluene		89.2	79.8	124.5
trans-1,3-Dichloropropene		90.3	74.0	131.3
1,1,2-Trichloroethane		86.9	78.7	123.1
Tetrachloroethene		91.7	74.5	124.5
trans-1,4-Dichloro-2-butene		100.4	68.6	135.4
Dibromochloromethane		91.5	74.6	127.2
1,2-Dibromoethane		91.8	70.3	133.7
Chlorobenzene		94.3	79.2	122.7
1,1,1,2-Tetrachloroethane		91.6	80.3	128.2
Ethylbenzene		96.2	79.5	129.1
p,m-Xylene		97.6	79.4	132.2
o-Xylene		96.5	80.2	131.0
Styrene		97.5	69.5	126.7
Isopropylbenzene		99.9	74.4	121.5
Bromoform		93.7	69.4	128.0
1,1,2,2-Tetrachloroethane		94.6	79.8	126.3
1,2,3-Trichloropropane		96.0	78.3	138.8
n-Propylbenzene		98.3	82.0	130.7
Bromobenzene		93.6	78.7	124.6
1,3,5-Trimethylbenzene		99.0	81.3	128.9
tert-Butylbenzene		98.1	80.7	128.9
1,2,4-Trimethylbenzene		100.9	81.4	130.8
sec-Butylbenzene		98.1	77.4	129.8
p-Isopropyltoluene		100.2	79.8	137.5
1,3-Dichlorobenzene		94.2	77.0	131.3
1,4-Dichlorobenzene		94.1	20.7	137.7
1,2-Dichlorobenzene		92.9	10.0	166.2
1,2,3-Trimethylbenzene		94.9	76.3	124.2
n-Butylbenzene		97.1	80.0	133.3
Hexachloroethane		91.8	23.8	138.1
1,2-Dibromo-3-chloropropane		103.6	21.2	189.4
1,2,4-Trichlorobenzene		93.4	27.4	143.4
1,2,3-Trichlorobenzene		94.0	75.4	131.4
Naphthalene		97.8	32.9	135.8

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 11:41, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		88.2	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230501A9.LCSDW01A, Parent Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 12:01, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		89.1	67.4	121.2	5.5	30.0
Acetone		86.9	29.9	161.5	14.5	30.0
Methyl iodide		83.3	68.8	116.4	1.6	30.0
Carbon disulfide		77.0	63.8	137.4	4.8	30.0
tert-Methyl butyl ether (MTBE)		90.4	73.2	122.4	4.1	30.0
Acrylonitrile		95.5	69.9	128.9	3.9	30.0
2-Butanone (MEK)		99.8	44.0	134.4	1.6	30.0
Dichlorodifluoromethane		85.4	10.0	222.8	1.5	30.0
Chloromethane		87.7	23.8	166.5	2.2	30.0
Vinyl chloride		92.1	43.5	149.1	1.4	30.0
Bromomethane		80.6	56.8	151.3	7.9	30.0
Chloroethane		94.3	53.4	149.4	1.6	30.0
Trichlorofluoromethane		85.0	59.7	151.8	12.8	30.0
1,1-Dichloroethene		79.5	69.6	139.4	4.5	30.0
Methylene chloride		84.3	73.3	121.1	3.3	30.0
trans-1,2-Dichloroethene		84.8	73.6	129.3	0.6	30.0
1,1-Dichloroethane		85.3	71.5	126.2	0.4	30.0
cis-1,2-Dichloroethene		85.9	76.6	122.1	0.0	30.0
Tetrahydrofuran		87.6	59.0	117.9	7.1	30.0
Chloroform		85.8	78.4	124.0	1.5	30.0
Bromochloromethane		88.1	78.2	120.8	5.7	30.0
1,1,1-Trichloroethane		82.3	79.4	130.9	2.1	30.0
4-Methyl-2-pentanone (MIBK)		88.6	71.6	125.2	7.9	30.0
2-Hexanone		88.7	55.4	136.9	12.5	30.0
Carbon tetrachloride		84.3	72.6	133.0	4.3	30.0
Benzene		85.4	79.9	124.9	2.7	30.0
1,2-Dichloroethane		85.1	76.0	126.3	1.7	30.0
Trichloroethene		86.0	79.7	124.2	4.1	30.0
1,2-Dichloropropane		87.2	78.6	126.4	0.4	30.0
Bromodichloromethane		89.6	80.4	128.2	1.9	30.0
Dibromomethane		89.9	76.9	122.1	0.4	30.0
cis-1,3-Dichloropropene		91.2	79.8	129.9	1.7	30.0
Toluene		86.7	79.8	124.5	2.9	30.0
trans-1,3-Dichloropropene		91.9	74.0	131.3	1.8	30.0
1,1,2-Trichloroethane		88.2	78.7	123.1	1.5	30.0
Tetrachloroethene		87.0	74.5	124.5	5.2	30.0
trans-1,4-Dichloro-2-butene		93.6	68.6	135.4	7.1	30.0
Dibromochloromethane		93.1	74.6	127.2	1.8	30.0
1,2-Dibromoethane		94.2	70.3	133.7	2.6	30.0
Chlorobenzene		93.8	79.2	122.7	0.5	30.0

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 230501A9.LCSDW01A, Parent Sample ID: 230501A9.LCSW01A

Run in Batch: 230501A9, Run Date: 05/01/2023 12:01, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		92.8	80.3	128.2	1.3	30.0
Ethylbenzene		93.8	79.5	129.1	2.5	30.0
p,m-Xylene		95.3	79.4	132.2	2.3	30.0
o-Xylene		95.5	80.2	131.0	1.1	30.0
Styrene		97.9	69.5	126.7	0.4	30.0
Isopropylbenzene		94.9	74.4	121.5	5.2	30.0
Bromoform		93.1	69.4	128.0	0.7	30.0
1,1,2,2-Tetrachloroethane		92.9	79.8	126.3	1.9	30.0
1,2,3-Trichloropropane		95.2	78.3	138.8	0.8	30.0
n-Propylbenzene		95.0	82.0	130.7	3.4	30.0
Bromobenzene		94.5	78.7	124.6	1.0	30.0
1,3,5-Trimethylbenzene		96.6	81.3	128.9	2.4	30.0
tert-Butylbenzene		94.4	80.7	128.9	3.9	30.0
1,2,4-Trimethylbenzene		97.9	81.4	130.8	3.1	30.0
sec-Butylbenzene		93.1	77.4	129.8	5.3	30.0
p-Isopropyltoluene		96.9	79.8	137.5	3.4	30.0
1,3-Dichlorobenzene		94.4	77.0	131.3	0.3	30.0
1,4-Dichlorobenzene		93.4	20.7	137.7	0.8	30.0
1,2-Dichlorobenzene		94.0	10.0	166.2	1.2	30.0
1,2,3-Trimethylbenzene		94.7	76.3	124.2	0.3	30.0
n-Butylbenzene		93.4	80.0	133.3	3.9	30.0
Hexachloroethane		89.0	23.8	138.1	3.2	30.0
1,2-Dibromo-3-chloropropane		102.2	21.2	189.4	1.4	30.0
1,2,4-Trichlorobenzene		94.8	27.4	143.4	1.6	30.0
1,2,3-Trichlorobenzene		95.0	75.4	131.4	1.0	30.0
Naphthalene		98.0	32.9	135.8	0.2	30.0
2-Methylnaphthalene		89.7	25.5	165.5	1.7	30.0

Matrix Spike (MS)

Lab Sample ID: 230501A9.4796509M, Parent Sample ID: S47965.08

Run in Batch: 230501A9, Run Date: 05/01/2023 12:20, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		82.3	67.4	121.2
Acetone		77.6	29.9	161.5
Methyl iodide		83.8	68.8	116.4
Carbon disulfide		81.9	63.8	137.4
tert-Methyl butyl ether (MTBE)		85.9	73.2	122.4
Acrylonitrile		92.6	69.9	128.9
2-Butanone (MEK)		90.4	44.0	134.4
Dichlorodifluoromethane		87.7	10.0	222.8
Chloromethane		88.9	23.8	166.5
Vinyl chloride		94.3	43.5	149.1
Bromomethane		70.8	56.8	151.3
Chloroethane		87.8	53.4	149.4
Trichlorofluoromethane		93.6	59.7	151.8
1,1-Dichloroethene		83.1	69.6	139.4

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike (MS) (continued)

Lab Sample ID: 230501A9.4796509M, Parent Sample ID: S47965.08

Run in Batch: 230501A9, Run Date: 05/01/2023 12:20, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Methylene chloride		80.5	73.3	121.1
trans-1,2-Dichloroethene		85.8	73.6	129.3
1,1-Dichloroethane		83.9	71.5	126.2
cis-1,2-Dichloroethene		84.6	76.6	122.1
Tetrahydrofuran		79.6	59.0	117.9
Chloroform		83.5	78.4	124.0
Bromochloromethane		83.6	78.2	120.8
1,1,1-Trichloroethane		85.1	79.4	130.9
4-Methyl-2-pentanone (MIBK)		85.2	71.6	125.2
2-Hexanone		86.9	55.4	136.9
Carbon tetrachloride		88.0	72.6	133.0
Benzene		86.4	79.9	124.9
1,2-Dichloroethane		81.8	76.0	126.3
Trichloroethene		89.0	79.7	124.2
1,2-Dichloropropane		85.3	78.6	126.4
Bromodichloromethane		86.6	80.4	128.2
Dibromomethane		88.0	76.9	122.1
cis-1,3-Dichloropropene		89.1	79.8	129.9
Toluene		88.7	79.8	124.5
trans-1,3-Dichloropropene		88.1	74.0	131.3
1,1,2-Trichloroethane		85.4	78.7	123.1
Tetrachloroethene		90.7	74.5	124.5
trans-1,4-Dichloro-2-butene		97.7	68.6	135.4
Dibromochloromethane		89.4	74.6	127.2
1,2-Dibromoethane		88.7	70.3	133.7
Chlorobenzene		92.8	79.2	122.7
1,1,1,2-Tetrachloroethane		89.3	80.3	128.2
Ethylbenzene		95.1	79.5	129.1
p,m-Xylene		97.5	79.4	132.2
o-Xylene		96.2	80.2	131.0
Styrene		97.3	69.5	126.7
Isopropylbenzene		98.0	74.4	121.5
Bromoform		91.6	69.4	128.0
1,1,2,2-Tetrachloroethane		90.7	79.8	126.3
1,2,3-Trichloropropane		90.9	78.3	138.8
n-Propylbenzene		97.6	82.0	130.7
Bromobenzene		92.0	78.7	124.6
1,3,5-Trimethylbenzene		97.8	81.3	128.9
tert-Butylbenzene		97.0	80.7	128.9
1,2,4-Trimethylbenzene		97.2	81.4	130.8
sec-Butylbenzene		97.9	77.4	129.8
p-Isopropyltoluene		100.8	79.8	137.5
1,3-Dichlorobenzene		93.2	77.0	131.3
1,4-Dichlorobenzene		93.5	20.7	137.7
1,2-Dichlorobenzene		93.2	10.0	166.2
1,2,3-Trimethylbenzene		94.0	76.3	124.2

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike (MS) (continued)

Lab Sample ID: 230501A9.4796509M, Parent Sample ID: S47965.08

Run in Batch: 230501A9, Run Date: 05/01/2023 12:20, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
n-Butylbenzene		97.7	80.0	133.3
Hexachloroethane		92.3	23.8	138.1
1,2-Dibromo-3-chloropropane		95.5	21.2	189.4
1,2,4-Trichlorobenzene		94.3	27.4	143.4
1,2,3-Trichlorobenzene		92.5	75.4	131.4
Naphthalene		93.9	32.9	135.8
2-Methylnaphthalene		86.7	25.5	165.5

Matrix Spike Duplicate (MSD)

Lab Sample ID: 230501A9.4796510N, Parent Sample ID: 230501A9.4796509M

Run in Batch: 230501A9, Run Date: 05/01/2023 12:39, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		89.4	67.4	121.2	8.3	30.0
Acetone		81.6	29.9	161.5	4.9	30.0
Methyl iodide		85.0	68.8	116.4	1.4	30.0
Carbon disulfide		79.8	63.8	137.4	2.5	30.0
tert-Methyl butyl ether (MTBE)		89.8	73.2	122.4	4.4	30.0
Acrylonitrile		94.0	69.9	128.9	1.5	30.0
2-Butanone (MEK)		87.3	44.0	134.4	3.5	30.0
Dichlorodifluoromethane		87.0	10.0	222.8	0.8	30.0
Chloromethane		91.4	23.8	166.5	2.8	30.0
Vinyl chloride		91.7	43.5	149.1	2.8	30.0
Bromomethane		86.6	56.8	151.3	20.1	30.0
Chloroethane		96.1	53.4	149.4	9.0	30.0
Trichlorofluoromethane		87.7	59.7	151.8	6.5	30.0
1,1-Dichloroethene		81.5	69.6	139.4	2.0	30.0
Methylene chloride		85.1	73.3	121.1	5.5	30.0
trans-1,2-Dichloroethene		83.8	73.6	129.3	2.4	30.0
1,1-Dichloroethane		86.2	71.5	126.2	2.6	30.0
cis-1,2-Dichloroethene		87.6	76.6	122.1	3.5	30.0
Tetrahydrofuran		80.7	59.0	117.9	1.3	30.0
Chloroform		86.3	78.4	124.0	3.3	30.0
Bromochloromethane		88.7	78.2	120.8	5.9	30.0
1,1,1-Trichloroethane		84.0	79.4	130.9	1.3	30.0
4-Methyl-2-pentanone (MIBK)		85.1	71.6	125.2	0.1	30.0
2-Hexanone		86.9	55.4	136.9	0.0	30.0
Carbon tetrachloride		85.1	72.6	133.0	3.3	30.0
Benzene		84.8	79.9	124.9	1.9	30.0
1,2-Dichloroethane		84.1	76.0	126.3	2.8	30.0
Trichloroethene		85.9	79.7	124.2	3.5	30.0
1,2-Dichloropropane		87.9	78.6	126.4	3.1	30.0
Bromodichloromethane		88.6	80.4	128.2	2.2	30.0
Dibromomethane		89.7	76.9	122.1	1.9	30.0
cis-1,3-Dichloropropene		91.0	79.8	129.9	2.1	30.0
Toluene		87.6	79.8	124.5	1.2	30.0
trans-1,3-Dichloropropene		89.4	74.0	131.3	1.5	30.0

Organics - Volatiles, Prep Batch ID: VD230501W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/MSD

Matrix Spike Duplicate (MSD) (continued)

Lab Sample ID: 230501A9.4796510N, Parent Sample ID: 230501A9.4796509M

Run in Batch: 230501A9, Run Date: 05/01/2023 12:39, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,2-Trichloroethane		88.2	78.7	123.1	3.2	30.0
Tetrachloroethene		87.1	74.5	124.5	4.1	30.0
trans-1,4-Dichloro-2-butene		91.6	68.6	135.4	6.4	30.0
Dibromochloromethane		90.4	74.6	127.2	1.2	30.0
1,2-Dibromoethane		87.8	70.3	133.7	0.9	30.0
Chlorobenzene		90.2	79.2	122.7	2.8	30.0
1,1,1,2-Tetrachloroethane		87.5	80.3	128.2	2.0	30.0
Ethylbenzene		90.9	79.5	129.1	4.5	30.0
p,m-Xylene		92.4	79.4	132.2	5.3	30.0
o-Xylene		93.2	80.2	131.0	3.1	30.0
Styrene		94.5	69.5	126.7	2.9	30.0
Isopropylbenzene		92.7	74.4	121.5	5.5	30.0
Bromoform		89.9	69.4	128.0	1.8	30.0
1,1,2,2-Tetrachloroethane		87.9	79.8	126.3	3.2	30.0
1,2,3-Trichloropropane		91.6	78.3	138.8	0.8	30.0
n-Propylbenzene		92.4	82.0	130.7	5.5	30.0
Bromobenzene		91.1	78.7	124.6	1.0	30.0
1,3,5-Trimethylbenzene		93.5	81.3	128.9	4.5	30.0
tert-Butylbenzene		91.5	80.7	128.9	5.8	30.0
1,2,4-Trimethylbenzene		94.0	81.4	130.8	3.4	30.0
sec-Butylbenzene		89.7	77.4	129.8	8.7	30.0
p-Isopropyltoluene		93.3	79.8	137.5	7.7	30.0
1,3-Dichlorobenzene		93.1	77.0	131.3	0.1	30.0
1,4-Dichlorobenzene		91.8	20.7	137.7	1.9	30.0
1,2-Dichlorobenzene		91.1	10.0	166.2	2.2	30.0
1,2,3-Trimethylbenzene		92.2	76.3	124.2	2.0	30.0
n-Butylbenzene		91.0	80.0	133.3	7.1	30.0
Hexachloroethane		86.5	23.8	138.1	6.6	30.0
1,2-Dibromo-3-chloropropane		91.9	21.2	189.4	3.8	30.0
1,2,4-Trichlorobenzene		92.3	27.4	143.4	2.1	30.0
1,2,3-Trichlorobenzene		92.3	75.4	131.4	0.2	30.0
Naphthalene		93.0	32.9	135.8	0.9	30.0
2-Methylnaphthalene		85.6	25.5	165.5	1.3	30.0

Organics - Volatiles, Prep Batch ID: VD230502W2

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230502A9.BLKW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 13:37, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	1.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

Organics - Volatiles, Prep Batch ID: VD230502W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 230502A9.BLKW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 13:37, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:20, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		95.9	67.4	121.2
Acetone		93.3	29.9	161.5
Methyl iodide		86.0	68.8	116.4
Carbon disulfide		85.6	63.8	137.4
tert-Methyl butyl ether (MTBE)		91.8	73.2	122.4
Acrylonitrile		104.1	69.9	128.9
2-Butanone (MEK)		100.6	44.0	134.4
Dichlorodifluoromethane		81.9	10.0	222.8
Chloromethane		115.4	23.8	166.5
Vinyl chloride		113.7	43.5	149.1
Bromomethane		87.6	56.8	151.3
Chloroethane		95.6	53.4	149.4
Trichlorofluoromethane		80.9	59.7	151.8
1,1-Dichloroethene		84.7	69.6	139.4
Methylene chloride		90.7	73.3	121.1
trans-1,2-Dichloroethene		90.8	73.6	129.3
1,1-Dichloroethane		93.7	71.5	126.2
cis-1,2-Dichloroethene		92.3	76.6	122.1
Tetrahydrofuran		99.6	59.0	117.9
Chloroform		87.9	78.4	124.0

Organics - Volatiles, Prep Batch ID: VD230502W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:20, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		88.7	78.2	120.8
1,1,1-Trichloroethane		81.7	79.4	130.9
4-Methyl-2-pentanone (MIBK)		95.3	71.6	125.2
2-Hexanone		94.7	55.4	136.9
Carbon tetrachloride		79.1	72.6	133.0
Benzene		91.1	79.9	124.9
1,2-Dichloroethane		82.6	76.0	126.3
Trichloroethene		88.5	79.7	124.2
1,2-Dichloropropane		94.8	78.6	126.4
Bromodichloromethane		89.7	80.4	128.2
Dibromomethane		87.6	76.9	122.1
cis-1,3-Dichloropropene		94.1	79.8	129.9
Toluene		89.2	79.8	124.5
trans-1,3-Dichloropropene		90.3	74.0	131.3
1,1,2-Trichloroethane		90.5	78.7	123.1
Tetrachloroethene		84.6	74.5	124.5
trans-1,4-Dichloro-2-butene		90.2	68.6	135.4
Dibromochloromethane		88.7	74.6	127.2
1,2-Dibromoethane		91.3	70.3	133.7
Chlorobenzene		90.6	79.2	122.7
1,1,1,2-Tetrachloroethane		86.9	80.3	128.2
Ethylbenzene		92.1	79.5	129.1
p,m-Xylene		93.6	79.4	132.2
o-Xylene		92.0	80.2	131.0
Styrene		95.1	69.5	126.7
Isopropylbenzene		91.5	74.4	121.5
Bromoform		85.3	69.4	128.0
1,1,2,2-Tetrachloroethane		91.2	79.8	126.3
1,2,3-Trichloropropane		88.2	78.3	138.8
n-Propylbenzene		91.9	82.0	130.7
Bromobenzene		88.7	78.7	124.6
1,3,5-Trimethylbenzene		93.2	81.3	128.9
tert-Butylbenzene		88.4	80.7	128.9
1,2,4-Trimethylbenzene		93.2	81.4	130.8
sec-Butylbenzene		92.9	77.4	129.8
p-Isopropyltoluene		93.4	79.8	137.5
1,3-Dichlorobenzene		92.8	77.0	131.3
1,4-Dichlorobenzene		92.8	20.7	137.7
1,2-Dichlorobenzene		92.1	10.0	166.2
1,2,3-Trimethylbenzene		92.6	76.3	124.2
n-Butylbenzene		94.1	80.0	133.3
Hexachloroethane		83.8	23.8	138.1
1,2-Dibromo-3-chloropropane		95.2	21.2	189.4
1,2,4-Trichlorobenzene		90.8	27.4	143.4
1,2,3-Trichlorobenzene		91.0	75.4	131.4
Naphthalene		95.0	32.9	135.8

Organics - Volatiles, Prep Batch ID: VD230502W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:20, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		83.3	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230502A9.LCSDW02A, Parent Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:39, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		94.6	67.4	121.2	1.4	30.0
Acetone		107.8	29.9	161.5	14.3	30.0
Methyl iodide		81.4	68.8	116.4	5.5	30.0
Carbon disulfide		80.0	63.8	137.4	6.9	30.0
tert-Methyl butyl ether (MTBE)		89.8	73.2	122.4	2.1	30.0
Acrylonitrile		116.8	69.9	128.9	11.6	30.0
2-Butanone (MEK)		110.6	44.0	134.4	9.5	30.0
Dichlorodifluoromethane		80.3	10.0	222.8	1.9	30.0
Chloromethane		108.9	23.8	166.5	5.8	30.0
Vinyl chloride		108.5	43.5	149.1	4.7	30.0
Bromomethane		81.4	56.8	151.3	7.4	30.0
Chloroethane		89.8	53.4	149.4	6.3	30.0
Trichlorofluoromethane		78.0	59.7	151.8	3.6	30.0
1,1-Dichloroethene		81.5	69.6	139.4	3.8	30.0
Methylene chloride		87.5	73.3	121.1	3.7	30.0
trans-1,2-Dichloroethene		86.9	73.6	129.3	4.3	30.0
1,1-Dichloroethane		88.2	71.5	126.2	6.0	30.0
cis-1,2-Dichloroethene		88.3	76.6	122.1	4.4	30.0
Tetrahydrofuran		105.3	59.0	117.9	5.5	30.0
Chloroform		85.0	78.4	124.0	3.3	30.0
Bromochloromethane		87.1	78.2	120.8	1.9	30.0
1,1,1-Trichloroethane	*	78.8	79.4	130.9	3.6	30.0
4-Methyl-2-pentanone (MIBK)		103.1	71.6	125.2	7.9	30.0
2-Hexanone		103.8	55.4	136.9	9.2	30.0
Carbon tetrachloride		77.5	72.6	133.0	2.0	30.0
Benzene		87.0	79.9	124.9	4.5	30.0
1,2-Dichloroethane		80.3	76.0	126.3	2.8	30.0
Trichloroethene		84.7	79.7	124.2	4.4	30.0
1,2-Dichloropropane		90.7	78.6	126.4	4.5	30.0
Bromodichloromethane		85.9	80.4	128.2	4.4	30.0
Dibromomethane		85.8	76.9	122.1	2.1	30.0
cis-1,3-Dichloropropene		91.8	79.8	129.9	2.4	30.0
Toluene		86.3	79.8	124.5	3.3	30.0
trans-1,3-Dichloropropene		89.4	74.0	131.3	1.1	30.0
1,1,2-Trichloroethane		91.0	78.7	123.1	0.6	30.0
Tetrachloroethene		82.6	74.5	124.5	2.4	30.0
trans-1,4-Dichloro-2-butene		99.6	68.6	135.4	9.9	30.0
Dibromochloromethane		88.4	74.6	127.2	0.4	30.0
1,2-Dibromoethane		92.3	70.3	133.7	1.1	30.0
Chlorobenzene		90.2	79.2	122.7	0.5	30.0

Organics - Volatiles, Prep Batch ID: VD230502W2 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 230502A9.LCSDW02A, Parent Sample ID: 230502A9.LCSW02A

Run in Batch: 230502A9, Run Date: 05/02/2023 12:39, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		84.1	80.3	128.2	3.2	30.0
Ethylbenzene		90.6	79.5	129.1	1.6	30.0
p,m-Xylene		93.0	79.4	132.2	0.7	30.0
o-Xylene		91.1	80.2	131.0	1.0	30.0
Styrene		93.6	69.5	126.7	1.6	30.0
Isopropylbenzene		89.9	74.4	121.5	1.7	30.0
Bromoform		87.8	69.4	128.0	2.9	30.0
1,1,2,2-Tetrachloroethane		97.0	79.8	126.3	6.2	30.0
1,2,3-Trichloropropane		95.5	78.3	138.8	7.9	30.0
n-Propylbenzene		91.4	82.0	130.7	0.6	30.0
Bromobenzene		87.0	78.7	124.6	1.9	30.0
1,3,5-Trimethylbenzene		91.0	81.3	128.9	2.4	30.0
tert-Butylbenzene		87.2	80.7	128.9	1.4	30.0
1,2,4-Trimethylbenzene		92.5	81.4	130.8	0.8	30.0
sec-Butylbenzene		94.2	77.4	129.8	1.4	30.0
p-Isopropyltoluene		95.2	79.8	137.5	1.8	30.0
1,3-Dichlorobenzene		93.2	77.0	131.3	0.5	30.0
1,4-Dichlorobenzene		91.5	20.7	137.7	1.4	30.0
1,2-Dichlorobenzene		91.3	10.0	166.2	0.9	30.0
1,2,3-Trimethylbenzene		93.4	76.3	124.2	0.9	30.0
n-Butylbenzene		94.6	80.0	133.3	0.6	30.0
Hexachloroethane		83.7	23.8	138.1	0.1	30.0
1,2-Dibromo-3-chloropropane		102.7	21.2	189.4	7.5	30.0
1,2,4-Trichlorobenzene		89.0	27.4	143.4	2.0	30.0
1,2,3-Trichlorobenzene		91.8	75.4	131.4	0.9	30.0
Naphthalene		100.4	32.9	135.8	5.6	30.0
2-Methylnaphthalene		89.3	25.5	165.5	7.0	30.0

Organics - Volatiles, Prep Batch ID: VF230501W1

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230501A7.BLKW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 13:31, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	1.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

Organics - Volatiles, Prep Batch ID: VF230501W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 230501A7.BLKW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 13:31, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 11:58, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		96.0	67.4	121.2
Acetone		118.6	29.9	161.5
Methyl iodide		99.3	68.8	116.4
Carbon disulfide		96.6	63.8	137.4
tert-Methyl butyl ether (MTBE)		88.4	73.2	122.4
Acrylonitrile		114.0	69.9	128.9
2-Butanone (MEK)	*	139.1	44.0	134.4
Dichlorodifluoromethane		93.1	10.0	222.8
Chloromethane		126.5	23.8	166.5
Vinyl chloride		106.7	43.5	149.1
Bromomethane		85.1	56.8	151.3
Chloroethane		100.5	53.4	149.4
Trichlorofluoromethane		93.0	59.7	151.8
1,1-Dichloroethene		102.2	69.6	139.4
Methylene chloride		92.2	73.3	121.1
trans-1,2-Dichloroethene		97.9	73.6	129.3
1,1-Dichloroethane		99.4	71.5	126.2
cis-1,2-Dichloroethene		87.6	76.6	122.1
Tetrahydrofuran	*	120.2	59.0	117.9
Chloroform		88.2	78.4	124.0

Organics - Volatiles, Prep Batch ID: VF230501W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 11:58, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		92.1	78.2	120.8
1,1,1-Trichloroethane		81.5	79.4	130.9
4-Methyl-2-pentanone (MIBK)	*	127.0	71.6	125.2
2-Hexanone		125.1	55.4	136.9
Carbon tetrachloride		106.4	72.6	133.0
Benzene		110.3	79.9	124.9
1,2-Dichloroethane		102.2	76.0	126.3
Trichloroethene		104.8	79.7	124.2
1,2-Dichloropropane		122.5	78.6	126.4
Bromodichloromethane		104.4	80.4	128.2
Dibromomethane		111.2	76.9	122.1
cis-1,3-Dichloropropene		104.0	79.8	129.9
Toluene		102.4	79.8	124.5
trans-1,3-Dichloropropene		105.2	74.0	131.3
1,1,2-Trichloroethane		104.6	78.7	123.1
Tetrachloroethene		109.5	74.5	124.5
trans-1,4-Dichloro-2-butene	*	136.6	68.6	135.4
Dibromochloromethane		124.5	74.6	127.2
1,2-Dibromoethane		116.4	70.3	133.7
Chlorobenzene		118.6	79.2	122.7
1,1,1,2-Tetrachloroethane		118.8	80.3	128.2
Ethylbenzene		116.1	79.5	129.1
p,m-Xylene		117.7	79.4	132.2
o-Xylene		114.3	80.2	131.0
Styrene		117.7	69.5	126.7
Isopropylbenzene		119.1	74.4	121.5
Bromoform	*	130.5	69.4	128.0
1,1,2,2-Tetrachloroethane		123.9	79.8	126.3
1,2,3-Trichloropropane		114.2	78.3	138.8
n-Propylbenzene		118.4	82.0	130.7
Bromobenzene		118.4	78.7	124.6
1,3,5-Trimethylbenzene		121.9	81.3	128.9
tert-Butylbenzene		110.6	80.7	128.9
1,2,4-Trimethylbenzene		122.3	81.4	130.8
sec-Butylbenzene		114.9	77.4	129.8
p-Isopropyltoluene		114.4	79.8	137.5
1,3-Dichlorobenzene		113.1	77.0	131.3
1,4-Dichlorobenzene		109.6	20.7	137.7
1,2-Dichlorobenzene		114.1	10.0	166.2
1,2,3-Trimethylbenzene		111.3	76.3	124.2
n-Butylbenzene		116.5	80.0	133.3
Hexachloroethane		132.7	23.8	138.1
1,2-Dibromo-3-chloropropane		129.4	21.2	189.4
1,2,4-Trichlorobenzene		133.4	27.4	143.4
1,2,3-Trichlorobenzene		129.6	75.4	131.4
Naphthalene		122.1	32.9	135.8

Organics - Volatiles, Prep Batch ID: VF230501W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 11:58, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		137.9	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230501A7.LCSDW01A, Parent Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 12:21, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		96.1	67.4	121.2	0.0	30.0
Acetone		115.2	29.9	161.5	2.9	30.0
Methyl iodide		92.7	68.8	116.4	6.9	30.0
Carbon disulfide		88.9	63.8	137.4	8.3	30.0
tert-Methyl butyl ether (MTBE)		86.4	73.2	122.4	2.3	30.0
Acrylonitrile		115.8	69.9	128.9	1.6	30.0
2-Butanone (MEK)	*	140.8	44.0	134.4	1.3	30.0
Dichlorodifluoromethane		87.5	10.0	222.8	6.2	30.0
Chloromethane		116.5	23.8	166.5	8.2	30.0
Vinyl chloride		99.5	43.5	149.1	7.0	30.0
Bromomethane		80.2	56.8	151.3	5.9	30.0
Chloroethane		93.7	53.4	149.4	7.0	30.0
Trichlorofluoromethane		86.8	59.7	151.8	7.0	30.0
1,1-Dichloroethene		93.9	69.6	139.4	8.5	30.0
Methylene chloride		87.3	73.3	121.1	5.4	30.0
trans-1,2-Dichloroethene		91.8	73.6	129.3	6.5	30.0
1,1-Dichloroethane		94.3	71.5	126.2	5.3	30.0
cis-1,2-Dichloroethene		83.3	76.6	122.1	5.1	30.0
Tetrahydrofuran	*	123.1	59.0	117.9	2.4	30.0
Chloroform		84.2	78.4	124.0	4.6	30.0
Bromochloromethane		89.3	78.2	120.8	3.0	30.0
1,1,1-Trichloroethane	*	78.2	79.4	130.9	4.1	30.0
4-Methyl-2-pentanone (MIBK)		122.3	71.6	125.2	3.8	30.0
2-Hexanone		125.9	55.4	136.9	0.6	30.0
Carbon tetrachloride		98.0	72.6	133.0	8.2	30.0
Benzene		101.9	79.9	124.9	7.9	30.0
1,2-Dichloroethane		98.0	76.0	126.3	4.2	30.0
Trichloroethene		97.1	79.7	124.2	7.7	30.0
1,2-Dichloropropane		114.9	78.6	126.4	6.3	30.0
Bromodichloromethane		97.0	80.4	128.2	7.3	30.0
Dibromomethane		106.0	76.9	122.1	4.8	30.0
cis-1,3-Dichloropropene		100.1	79.8	129.9	3.9	30.0
Toluene		94.6	79.8	124.5	7.9	30.0
trans-1,3-Dichloropropene		101.3	74.0	131.3	3.8	30.0
1,1,2-Trichloroethane		98.7	78.7	123.1	5.8	30.0
Tetrachloroethene		102.4	74.5	124.5	6.7	30.0
trans-1,4-Dichloro-2-butene		130.9	68.6	135.4	4.2	30.0
Dibromochloromethane		117.5	74.6	127.2	5.8	30.0
1,2-Dibromoethane		109.8	70.3	133.7	5.9	30.0
Chlorobenzene		108.6	79.2	122.7	8.8	30.0

Organics - Volatiles, Prep Batch ID: VF230501W1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 230501A7.LCSDW01A, Parent Sample ID: 230501A7.LCSW01A

Run in Batch: 230501A7, Run Date: 05/01/2023 12:21, Prep Date: 05/01/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		110.1	80.3	128.2	7.6	30.0
Ethylbenzene		106.0	79.5	129.1	9.1	30.0
p,m-Xylene		108.3	79.4	132.2	8.3	30.0
o-Xylene		105.3	80.2	131.0	8.2	30.0
Styrene		108.7	69.5	126.7	7.9	30.0
Isopropylbenzene		107.6	74.4	121.5	10.1	30.0
Bromoform		123.6	69.4	128.0	5.4	30.0
1,1,2,2-Tetrachloroethane		116.7	79.8	126.3	6.0	30.0
1,2,3-Trichloropropane		107.7	78.3	138.8	5.9	30.0
n-Propylbenzene		107.3	82.0	130.7	9.8	30.0
Bromobenzene		109.8	78.7	124.6	7.5	30.0
1,3,5-Trimethylbenzene		111.3	81.3	128.9	9.0	30.0
tert-Butylbenzene		100.5	80.7	128.9	9.5	30.0
1,2,4-Trimethylbenzene		110.9	81.4	130.8	9.8	30.0
sec-Butylbenzene		105.0	77.4	129.8	9.0	30.0
p-Isopropyltoluene		104.2	79.8	137.5	9.3	30.0
1,3-Dichlorobenzene		106.8	77.0	131.3	5.7	30.0
1,4-Dichlorobenzene		102.7	20.7	137.7	6.5	30.0
1,2-Dichlorobenzene		108.3	10.0	166.2	5.3	30.0
1,2,3-Trimethylbenzene		102.7	76.3	124.2	8.0	30.0
n-Butylbenzene		107.0	80.0	133.3	8.5	30.0
Hexachloroethane		121.6	23.8	138.1	8.7	30.0
1,2-Dibromo-3-chloropropane		125.1	21.2	189.4	3.4	30.0
1,2,4-Trichlorobenzene		127.3	27.4	143.4	4.7	30.0
1,2,3-Trichlorobenzene		124.8	75.4	131.4	3.8	30.0
Naphthalene		116.7	32.9	135.8	4.5	30.0
2-Methylnaphthalene		135.1	25.5	165.5	2.1	30.0

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C.O.C. PAGE # 1 OF 2

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CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: CELL NO.: 313-333-0211 P.O. NO.:
E-MAIL ADDRESS: Clifford.Yantz@Ramboll.com Kevin.Schneider@Ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: X SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RALER Hemphill Rd Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb, Se, Zn	DISSOLVED As, Ba, Pb, Se, Zn	Special Instructions
47965.01	4/25/23	1245	OBG MW-7S	GW	5		3	2					X	X	X	Dissolved Metals
.02	4/25/23	1300	OBG MW-7D	GW	5		3	2					X	X	X	were field Filtered
.03	4/25/23	1445	OBG MW-1S	GW	5		3	2					X	X	X	
.04	4/25/23	1545	OBG MW-3	GW	5		3	2					X	X	X	
.05	4/26/23	1020	OBG MW-2S	GW	5		3	2					X	X	X	
.06	4/26/23	1140	OBG MW-2D	GW	5		3	2					X	X	X	
.07	4/26/23	1310	OBG MW-6S	GW	5		3	2					X	X	X	
.08/.09/.10	4/26/23	1420	OBG MW-6D (MS/MSD)	GW	17		11	6					X	X	X	
.11 .09	4/27/23	1025	OBG OS MW-3	GW	5		3	2					X	X	X	
.12 .10	4/27/23	1038	OBG OS MW-5	GW	5		3	2					X	X	X	
.13 .11	4/27/23	1120	Field Blank-042723	L	4		3	1					X	X		
.14 .12	4/27/23	1145	OBG OSMW-4	GW	5		3	2					X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION (mc)	X Sampler	DATE 4/27/23	TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1645
RECEIVED BY: SIGNATURE/ORGANIZATION Johanne Murray		DATE 4/27/23	TIME 1645

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

169193

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yuntz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: 313-333-0211 CELL NO.: P.O. NO.:
E-MAIL ADDRESS: clifford.yuntz@ramboll.com / kevin.schneider@ramboll.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Kenpshill Road Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	COLLECTION DATE	COLLECTION TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb	Dissolved As, Ba, Pb
479615	4/27/23	1352	OBG MW-55	GW	5		3	2					X	X	X
16	4/27/23	—	DUP-042723	GW	5		3	2					X	X	X
17	4/27/23	—	Trip Blank-042723	L	1		1						X		

Special Instructions: Dissolved Metals were field filtered

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE 4/27/23	TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1542
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 4/27/23	TIME 1645
RECEIVED BY: SIGNATURE/ORGANIZATION Johanna Murray		DATE 4/27/23	TIME 1645

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 2.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 1.26.22

Analytical Laboratory Report

Report ID: S48038.01(01)
Generated on 05/08/2023

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Addtional Contacts: Kevin Schneider

Report produced by

Merit Laboratories, Inc.
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East Lansing, MI 48823

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Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S48038.01-S48038.03
Project: RACER Hemphill Road Industrial Land
Collected Date(s): 05/01/2023
Submitted Date/Time: 05/01/2023 15:25
Sampled by: Kevin Schneider
P.O. #: 1940006990

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.
Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)
PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."
Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.
Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48038.01	OBG OSMW-1	Groundwater	05/01/23 11:00
S48038.02	OBG OSMW-2	Groundwater	05/01/23 11:48
S48038.03	Trip Blank-050123	Liquid	05/01/23 00:01

Analytical Laboratory Report

Lab Sample ID: S48038.01
Sample Tag: OBG OSMW-1
Collected Date/Time: 05/01/2023 11:00
Matrix: Groundwater
COC Reference: 125013

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/03/23 10:15	ACK	
Metal Digestion	Completed	SW3015A	05/02/23 10:00	CCM	
Metal Digestion	Completed	SW3015A	05/02/23 10:00	CCM	

Metals

Method: E200.8, Run Date: 05/02/23 12:00, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.044	0.002		mg/L	5	7440-38-2	
Barium	0.796	0.005		mg/L	5	7440-39-3	
Lead	Not detected	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	Not detected	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/02/23 12:01, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.036	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.790	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	Not detected	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 04:13, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S48038.01 (continued)
Sample Tag: OBG OSMW-1

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 04:13, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Lab Sample ID: S48038.02
Sample Tag: OBG OSMW-2
Collected Date/Time: 05/01/2023 11:48
Matrix: Groundwater
COC Reference: 125013

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	3.8	IR
3	40ml Glass	HCL	Yes	3.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/03/23 10:15	ACK	
Metal Digestion	Completed	SW3015A	05/02/23 10:00	CCM	
Metal Digestion	Completed	SW3015A	05/02/23 10:00	CCM	

Metals

Method: E200.8, Run Date: 05/02/23 12:04, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic	0.069	0.002		mg/L	5	7440-38-2	
Barium	0.219	0.005		mg/L	5	7440-39-3	
Lead	0.020	0.003		mg/L	5	7439-92-1	
Selenium	Not detected	0.005		mg/L	5	7782-49-2	
Zinc	0.029	0.005		mg/L	5	7440-66-6	

Method: E200.8, Run Date: 05/02/23 12:05, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Arsenic, Dissolved	0.058	0.002		mg/L	5	7440-38-2	
Barium, Dissolved	0.216	0.005		mg/L	5	7440-39-3	
Lead, Dissolved	Not detected	0.003		mg/L	5	7439-92-1	
Selenium, Dissolved	Not detected	0.005		mg/L	5	7782-49-2	
Zinc, Dissolved	0.007	0.005		mg/L	5	7440-66-6	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 04:37, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	

Lab Sample ID: S48038.02 (continued)
Sample Tag: OBG OSMW-2

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 04:37, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48038.03
Sample Tag: Trip Blank-050123
Collected Date/Time: 05/01/2023 00:01
Matrix: Liquid
COC Reference: 125013

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	05/03/23 10:15	ACK	

Organics - Volatiles

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 01:52, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	Not detected	50		ug/L	1	67-64-1	
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	

Lab Sample ID: S48038.03 (continued)
Sample Tag: Trip Blank-050123

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 05/03/23 01:52, Analyst: JGH (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Merit Laboratories Login Checklist

Lab Set ID: S48038
Client: RAMBOLL (Ramboll Americas - Michigan)
Project: RACER Hemphill Road Industrial Land
Submitted: 05/01/2023 15:25 Login User: MAM

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Selection				Description	Note
Sample Receiving					
01.	[X] Yes	[ ] No	[ ] N/A	Samples are received at 4C +/- 2C Thermometer #	3.8 IR
02.	[X] Yes	[ ] No	[ ] N/A	Received on ice/ cooling process begun	
03.	[ ] Yes	[X] No	[ ] N/A	Samples shipped	
04.	[ ] Yes	[X] No	[ ] N/A	Samples left in 24 hr. drop box	
05.	[ ] Yes	[ ] No	[X] N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody					
06.	[X] Yes	[ ] No	[ ] N/A	COC adequately filled out	
07.	[X] Yes	[ ] No	[ ] N/A	COC signed and relinquished to the lab	
08.	[X] Yes	[ ] No	[ ] N/A	Sample tag on bottles match COC	
09.	[ ] Yes	[X] No	[ ] N/A	Subcontracting needed? Subcontacted to:	
Preservation					
10.	[X] Yes	[ ] No	[ ] N/A	Do sample have correct chemical preservation	
11.	[X] Yes	[ ] No	[ ] N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	[ ] Yes	[X] No	[ ] N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions					
13.	[X] Yes	[ ] No	[ ] N/A	All bottles intact	
14.	[X] Yes	[ ] No	[ ] N/A	Appropriate analytical bottles are used	
15.	[X] Yes	[ ] No	[ ] N/A	Merit bottles used	
16.	[X] Yes	[ ] No	[ ] N/A	Sufficient sample volume received	
17.	[ ] Yes	[X] No	[ ] N/A	Samples require laboratory filtration	
18.	[X] Yes	[ ] No	[ ] N/A	Samples submitted within holding time	
19.	[ ] Yes	[ ] No	[X] N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Prepared by Merit Laboratories

Merit Laboratories Bottle Preservation Check

Lab Set ID: S48038 Submitted: 05/01/2023 15:25

Client: RAMBOLL (Ramboll Americas - Michigan)

Project: RACER Hemphill Road Industrial Land

Initial Preservation Check: 05/01/2023 15:43 MAM

Preservation Recheck (E200.8): N/A

Attention: Clifford Yantz
Address: Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:
Email: Clifford.Yantz@ramboll.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S48038.01	125ml Plastic HNO3	<2			
S48038.01	125ml Plastic HNO3	<2			
S48038.02	125ml Plastic HNO3	<2			
S48038.02	125ml Plastic HNO3	<2			

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

125013

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Clifford Yantz / Kevin Schneider
COMPANY: Ramboll
ADDRESS: 2090 Commonwealth Blvd
CITY: Ann Arbor STATE: MI ZIP CODE: 48105
PHONE NO.: 313-333-0211 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: clifford.yantz@ramboll.com QUOTE NO.:

INVOICE TO

☒ SAME
CONTACT NAME:
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Hemphill Road Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn
48038.01	5/1/23	1100	OBG OSMW-1	GW	5		3	2					X	X	X
.02	5/1/23	1148	OBG OSMW-2	GW	5		3	2					X	X	X
.03	5/1/23	—	Trip Blank-050123	L	1		1						X		

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions
Dissolved metals were field filtered

KS

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature] ☒ Sampler	5/1/23	1245
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	5/1/23	1245
RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature]	5/1/23	1523
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	5/1/23	1525

	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		
RECEIVED BY: SIGNATURE/ORGANIZATION		

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Quality Control Report

Report ID: QC-S48038-01
Generated on 05/08/2023

Report to

Attention: Clifford Yantz
Ramboll Americas
2090 Commonwealth Blvd
Ann Arbor, MI 48105

Phone: 313-333-0211 FAX:

Report Produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48038.01-S48038.03
Project: RACER Hemphill Road Industrial Land
Submitted Date/Time: 05/01/2023 15:25
Sampled by: Kevin Schneider
P.O. #: 1940006990

QC Report Sections

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S48038.01
Sample Tag: OBG OSMW-1
Collected Date/Time: 05/01/2023 11:00
Matrix: Groundwater
COC Reference: 125013

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/02/23 12:00	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Barium	E200.8	05/02/23 12:00	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Lead	E200.8	05/02/23 12:00	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/02/23 12:00	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/02/23 12:00	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 04:13	230502B7	VF230502W3	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S48038.02
Sample Tag: OBG OSMW-2
Collected Date/Time: 05/01/2023 11:48
Matrix: Groundwater
COC Reference: 125013

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Metals						
Arsenic, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Arsenic	E200.8	05/02/23 12:04	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Barium, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Barium	E200.8	05/02/23 12:04	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Lead, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Lead	E200.8	05/02/23 12:04	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Selenium, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Selenium	E200.8	05/02/23 12:04	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Zinc, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Zinc	E200.8	05/02/23 12:04	MT4-23-0502A	MTD-050223-1	No	BLK/LCS/MS/MSD
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 04:37	230502B7	VF230502W3	Yes	BLK/LCS/LCSD

QC Report - Analysis Summary

Lab Sample ID: S48038.03
Sample Tag: Trip Blank-050123
Collected Date/Time: 05/01/2023 00:01
Matrix: Liquid
COC Reference: 125013

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - Volatiles						
Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 01:52	230502B7	VF230502W3	Yes	BLK/LCS/LCSD

QC Report - Prep Batch Summary

Metals, Prep Batch ID: MTD-050223-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48038.01	Arsenic, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A
S48038.01	Arsenic	E200.8	05/02/23 12:00	MT4-23-0502A
S48038.01	Barium, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A
S48038.01	Barium	E200.8	05/02/23 12:00	MT4-23-0502A
S48038.01	Lead, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A
S48038.01	Lead	E200.8	05/02/23 12:00	MT4-23-0502A
S48038.01	Selenium, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A
S48038.01	Selenium	E200.8	05/02/23 12:00	MT4-23-0502A
S48038.01	Zinc, Dissolved	E200.8	05/02/23 12:01	MT4-23-0502A
S48038.01	Zinc	E200.8	05/02/23 12:00	MT4-23-0502A
S48038.02	Arsenic, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A
S48038.02	Arsenic	E200.8	05/02/23 12:04	MT4-23-0502A
S48038.02	Barium, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A
S48038.02	Barium	E200.8	05/02/23 12:04	MT4-23-0502A
S48038.02	Lead, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A
S48038.02	Lead	E200.8	05/02/23 12:04	MT4-23-0502A
S48038.02	Selenium, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A
S48038.02	Selenium	E200.8	05/02/23 12:04	MT4-23-0502A
S48038.02	Zinc, Dissolved	E200.8	05/02/23 12:05	MT4-23-0502A
S48038.02	Zinc	E200.8	05/02/23 12:04	MT4-23-0502A

Organics - Volatiles, Prep Batch ID: VF230502W3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48038.01	Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 04:13	230502B7
S48038.02	Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 04:37	230502B7
S48038.03	Volatile Organics - DEQ List	SW5030C/8260C	05/03/23 01:52	230502B7

QC Report - Surrogates per Lab Sample

Lab Sample ID: S48038.01
Sample Tag: OBG OSMW-1
Collected Date/Time: 05/01/2023 11:00
Matrix: Groundwater
COC Reference: 125013

Organics - Volatiles, Analysis: Volatile Organics - DEQ List
Run in Batch: 230502B7, Run Date: 05/03/2023 04:13, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**111.3**	80.0	124.0
1,2-Dichloroethane-D4		**84.2**	72.0	125.0
Toluene-D8		**95.0**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S48038.02

Sample Tag: OBG OSMW-2

Collected Date/Time: 05/01/2023 11:48

Matrix: Groundwater

COC Reference: 125013

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230502B7, Run Date: 05/03/2023 04:37, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**108.9**	80.0	124.0
1,2-Dichloroethane-D4		**79.8**	72.0	125.0
Toluene-D8		**94.8**	89.0	112.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S48038.03

Sample Tag: Trip Blank-050123

Collected Date/Time: 05/01/2023 00:01

Matrix: Liquid

COC Reference: 125013

Organics - Volatiles, Analysis: Volatile Organics - DEQ List

Run in Batch: 230502B7, Run Date: 05/03/2023 01:52, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**110.4**	80.0	124.0
1,2-Dichloroethane-D4		**81.3**	72.0	125.0
Toluene-D8		**93.6**	89.0	112.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF230502W3

QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230502B7.BLKW02B

Run in Batch: 230502B7, Run Date: 05/03/2023 01:06, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**111.6**	80.0	124.0
1,2-Dichloroethane-D4		**84.5**	72.0	125.0
Toluene-D8		**93.6**	89.0	112.0

Laboratory Control Sample (LCS)

Lab Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:32, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**112.4**	80.0	124.0
1,2-Dichloroethane-D4		**83.5**	72.0	125.0
Toluene-D8		**95.3**	89.0	112.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230502B7.LCSDW02B, Parent Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:55, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		**110.9**	80.0	124.0
1,2-Dichloroethane-D4		**82.8**	72.0	125.0
Toluene-D8		**93.3**	89.0	112.0

Metals, Prep Batch ID: MTD-050223-1

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: MT4-23-0502A.021.LRB

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 11:16, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Barium		ND	0.001	mg/L
Lead		ND	0.0006	mg/L
Selenium		ND	0.001	mg/L
Zinc		ND	0.001	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-23-0502A.019.LCS

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 11:06, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	85	115
Barium		98	85	115
Lead		102	85	115
Selenium		98	85	115
Zinc		104	85	115

Matrix Spike (MS)

Lab Sample ID: MT4-23-0502A.036.MS, Parent Sample ID: S47940.02

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 11:48, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		104	75	125
Barium		101	75	125
Lead		100	75	125
Selenium		100	75	125
Zinc		118	75	125

Matrix Spike (MS)

Lab Sample ID: MT4-23-0502A.051.MS, Parent Sample ID: S48006.02

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 12:21, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		104	75	125
Barium		96	75	125
Lead		98	75	125
Selenium		100	75	125
Zinc		106	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-23-0502A.037.MSD, Parent Sample ID: MT4-23-0502A.036.MS

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 11:54, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		104	75	125	0	20
Barium		102	75	125	1	20
Lead		99	75	125	0	20
Selenium		100	75	125	0	20
Zinc		110	75	125	2	20

Metals, Prep Batch ID: MTD-050223-1 (continued)

Surrogates: No, QC Types: BLK/LCS/MS/MSD

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-23-0502A.052.MSD, Parent Sample ID: MT4-23-0502A.051.MS

Run in Batch: MT4-23-0502A, Run Date: 05/02/2023 12:22, Prep Date: 05/02/2023, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		103	75	125	1	20
Barium		100	75	125	2	20
Lead		99	75	125	0	20
Selenium		104	75	125	4	20
Zinc		111	75	125	5	20

Organics - Volatiles, Prep Batch ID: VF230502W3

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK)

Lab Sample ID: 230502B7.BLKW02B

Run in Batch: 230502B7, Run Date: 05/03/2023 01:06, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Diethyl ether		ND	1.00	ug/l
Acetone		ND	10.00	ug/l
Methyl iodide		ND	1.00	ug/l
Carbon disulfide		ND	1.00	ug/l
tert-Methyl butyl ether (MTBE)		ND	1.00	ug/l
Acrylonitrile		ND	1.00	ug/l
2-Butanone (MEK)		ND	10.00	ug/l
Dichlorodifluoromethane		ND	1.00	ug/l
Chloromethane		ND	1.00	ug/l
Vinyl chloride		ND	1.00	ug/l
Bromomethane		ND	1.00	ug/l
Chloroethane		ND	1.00	ug/l
Trichlorofluoromethane		ND	1.00	ug/l
1,1-Dichloroethene		ND	1.00	ug/l
Methylene chloride		ND	1.00	ug/l
trans-1,2-Dichloroethene		ND	1.00	ug/l
1,1-Dichloroethane		ND	1.00	ug/l
cis-1,2-Dichloroethene		ND	1.00	ug/l
Tetrahydrofuran		ND	10.00	ug/l
Chloroform		ND	1.00	ug/l
Bromochloromethane		ND	1.00	ug/l
1,1,1-Trichloroethane		ND	1.00	ug/l
4-Methyl-2-pentanone (MIBK)		ND	10.00	ug/l
2-Hexanone		ND	10.00	ug/l
Carbon tetrachloride		ND	1.00	ug/l
Benzene		ND	1.00	ug/l
1,2-Dichloroethane		ND	1.00	ug/l
Trichloroethene		ND	1.00	ug/l
1,2-Dichloropropane		ND	1.00	ug/l
Bromodichloromethane		ND	1.00	ug/l
Dibromomethane		ND	1.00	ug/l
cis-1,3-Dichloropropene		ND	1.00	ug/l
Toluene		ND	1.00	ug/l
trans-1,3-Dichloropropene		ND	1.00	ug/l
1,1,2-Trichloroethane		ND	1.00	ug/l
Tetrachloroethene		ND	1.00	ug/l
trans-1,4-Dichloro-2-butene		ND	1.00	ug/l
Dibromochloromethane		ND	1.00	ug/l
1,2-Dibromoethane		ND	1.00	ug/l
Chlorobenzene		ND	1.00	ug/l
1,1,1,2-Tetrachloroethane		ND	1.00	ug/l
Ethylbenzene		ND	1.00	ug/l
p,m-Xylene		ND	1.00	ug/l
o-Xylene		ND	1.00	ug/l
Styrene		ND	1.00	ug/l
Isopropylbenzene		ND	1.00	ug/l

Organics - Volatiles, Prep Batch ID: VF230502W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Blank (BLK) (continued)

Lab Sample ID: 230502B7.BLKW02B

Run in Batch: 230502B7, Run Date: 05/03/2023 01:06, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Bromoform		ND	1.00	ug/l
1,1,2,2-Tetrachloroethane		ND	1.00	ug/l
1,2,3-Trichloropropane		ND	1.00	ug/l
n-Propylbenzene		ND	1.00	ug/l
Bromobenzene		ND	1.00	ug/l
1,3,5-Trimethylbenzene		ND	1.00	ug/l
tert-Butylbenzene		ND	1.00	ug/l
1,2,4-Trimethylbenzene		ND	1.00	ug/l
sec-Butylbenzene		ND	1.00	ug/l
p-Isopropyltoluene		ND	1.00	ug/l
1,3-Dichlorobenzene		ND	1.00	ug/l
1,4-Dichlorobenzene		ND	1.00	ug/l
1,2-Dichlorobenzene		ND	1.00	ug/l
1,2,3-Trimethylbenzene		ND	1.00	ug/l
n-Butylbenzene		ND	1.00	ug/l
Hexachloroethane		ND	1.00	ug/l
1,2-Dibromo-3-chloropropane		ND	1.00	ug/l
1,2,4-Trichlorobenzene		ND	1.00	ug/l
1,2,3-Trichlorobenzene		ND	1.00	ug/l
Naphthalene		ND	1.00	ug/l
2-Methylnaphthalene		ND	1.00	ug/l

Laboratory Control Sample (LCS)

Lab Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:32, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Diethyl ether		92.7	67.4	121.2
Acetone		136.3	29.9	161.5
Methyl iodide		94.8	68.8	116.4
Carbon disulfide		87.8	63.8	137.4
tert-Methyl butyl ether (MTBE)		87.6	73.2	122.4
Acrylonitrile		108.3	69.9	128.9
2-Butanone (MEK)		126.4	44.0	134.4
Dichlorodifluoromethane		86.3	10.0	222.8
Chloromethane		120.3	23.8	166.5
Vinyl chloride		103.6	43.5	149.1
Bromomethane		83.6	56.8	151.3
Chloroethane		97.1	53.4	149.4
Trichlorofluoromethane		89.7	59.7	151.8
1,1-Dichloroethene		94.8	69.6	139.4
Methylene chloride		87.6	73.3	121.1
trans-1,2-Dichloroethene		91.3	73.6	129.3
1,1-Dichloroethane		94.9	71.5	126.2
cis-1,2-Dichloroethene		83.5	76.6	122.1
Tetrahydrofuran	*	119.3	59.0	117.9
Chloroform		85.5	78.4	124.0

Organics - Volatiles, Prep Batch ID: VF230502W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:32, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Bromochloromethane		90.3	78.2	120.8
1,1,1-Trichloroethane	*	78.1	79.4	130.9
4-Methyl-2-pentanone (MIBK)		122.6	71.6	125.2
2-Hexanone		123.0	55.4	136.9
Carbon tetrachloride		99.2	72.6	133.0
Benzene		104.0	79.9	124.9
1,2-Dichloroethane		101.6	76.0	126.3
Trichloroethene		97.2	79.7	124.2
1,2-Dichloropropane		117.6	78.6	126.4
Bromodichloromethane		101.3	80.4	128.2
Dibromomethane		108.6	76.9	122.1
cis-1,3-Dichloropropene		100.9	79.8	129.9
Toluene		97.1	79.8	124.5
trans-1,3-Dichloropropene		99.3	74.0	131.3
1,1,2-Trichloroethane		101.1	78.7	123.1
Tetrachloroethene		101.7	74.5	124.5
trans-1,4-Dichloro-2-butene		121.5	68.6	135.4
Dibromochloromethane		116.7	74.6	127.2
1,2-Dibromoethane		111.0	70.3	133.7
Chlorobenzene		110.3	79.2	122.7
1,1,1,2-Tetrachloroethane		112.9	80.3	128.2
Ethylbenzene		106.6	79.5	129.1
p,m-Xylene		109.3	79.4	132.2
o-Xylene		105.6	80.2	131.0
Styrene		110.3	69.5	126.7
Isopropylbenzene		108.7	74.4	121.5
Bromoform		118.8	69.4	128.0
1,1,2,2-Tetrachloroethane		116.4	79.8	126.3
1,2,3-Trichloropropane		108.4	78.3	138.8
n-Propylbenzene		106.3	82.0	130.7
Bromobenzene		113.8	78.7	124.6
1,3,5-Trimethylbenzene		111.9	81.3	128.9
tert-Butylbenzene		101.8	80.7	128.9
1,2,4-Trimethylbenzene		110.7	81.4	130.8
sec-Butylbenzene		101.5	77.4	129.8
p-Isopropyltoluene		100.1	79.8	137.5
1,3-Dichlorobenzene		102.8	77.0	131.3
1,4-Dichlorobenzene		103.0	20.7	137.7
1,2-Dichlorobenzene		106.7	10.0	166.2
1,2,3-Trimethylbenzene		99.9	76.3	124.2
n-Butylbenzene		99.2	80.0	133.3
Hexachloroethane		115.4	23.8	138.1
1,2-Dibromo-3-chloropropane		123.7	21.2	189.4
1,2,4-Trichlorobenzene		121.1	27.4	143.4
1,2,3-Trichlorobenzene		120.9	75.4	131.4
Naphthalene		114.3	32.9	135.8

Organics - Volatiles, Prep Batch ID: VF230502W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample (LCS) (continued)

Lab Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:32, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
2-Methylnaphthalene		129.0	25.5	165.5

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 230502B7.LCSDW02B, Parent Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:55, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Diethyl ether		99.1	67.4	121.2	6.7	30.0
Acetone		138.1	29.9	161.5	1.3	30.0
Methyl iodide		91.1	68.8	116.4	4.0	30.0
Carbon disulfide		83.5	63.8	137.4	5.0	30.0
tert-Methyl butyl ether (MTBE)		85.2	73.2	122.4	2.8	30.0
Acrylonitrile		114.8	69.9	128.9	5.8	30.0
2-Butanone (MEK)		127.9	44.0	134.4	1.2	30.0
Dichlorodifluoromethane		80.1	10.0	222.8	7.5	30.0
Chloromethane		112.2	23.8	166.5	6.9	30.0
Vinyl chloride		92.8	43.5	149.1	11.0	30.0
Bromomethane		78.9	56.8	151.3	5.7	30.0
Chloroethane		91.4	53.4	149.4	6.0	30.0
Trichlorofluoromethane		84.6	59.7	151.8	5.9	30.0
1,1-Dichloroethene		92.1	69.6	139.4	2.9	30.0
Methylene chloride		83.9	73.3	121.1	4.3	30.0
trans-1,2-Dichloroethene		88.5	73.6	129.3	3.2	30.0
1,1-Dichloroethane		92.3	71.5	126.2	2.8	30.0
cis-1,2-Dichloroethene		80.7	76.6	122.1	3.4	30.0
Tetrahydrofuran	*	126.3	59.0	117.9	5.7	30.0
Chloroform		82.0	78.4	124.0	4.1	30.0
Bromochloromethane		89.1	78.2	120.8	1.3	30.0
1,1,1-Trichloroethane	*	75.2	79.4	130.9	3.8	30.0
4-Methyl-2-pentanone (MIBK)		119.6	71.6	125.2	2.5	30.0
2-Hexanone		127.9	55.4	136.9	3.9	30.0
Carbon tetrachloride		94.1	72.6	133.0	5.2	30.0
Benzene		99.5	79.9	124.9	4.4	30.0
1,2-Dichloroethane		97.0	76.0	126.3	4.6	30.0
Trichloroethene		95.3	79.7	124.2	2.0	30.0
1,2-Dichloropropane		112.5	78.6	126.4	4.5	30.0
Bromodichloromethane		97.7	80.4	128.2	3.6	30.0
Dibromomethane		105.8	76.9	122.1	2.6	30.0
cis-1,3-Dichloropropene		98.4	79.8	129.9	2.6	30.0
Toluene		93.1	79.8	124.5	4.1	30.0
trans-1,3-Dichloropropene		97.6	74.0	131.3	1.7	30.0
1,1,2-Trichloroethane		99.6	78.7	123.1	1.5	30.0
Tetrachloroethene		97.6	74.5	124.5	4.1	30.0
trans-1,4-Dichloro-2-butene		125.9	68.6	135.4	3.6	30.0
Dibromochloromethane		116.1	74.6	127.2	0.5	30.0
1,2-Dibromoethane		110.1	70.3	133.7	0.8	30.0
Chlorobenzene		106.8	79.2	122.7	3.3	30.0

Organics - Volatiles, Prep Batch ID: VF230502W3 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD

Laboratory Control Sample Duplicate (LCSD) (continued)

Lab Sample ID: 230502B7.LCSDW02B, Parent Sample ID: 230502B7.LCSW02B

Run in Batch: 230502B7, Run Date: 05/02/2023 23:55, Prep Date: 05/02/2023, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
1,1,1,2-Tetrachloroethane		107.3	80.3	128.2	5.1	30.0
Ethylbenzene		103.9	79.5	129.1	2.6	30.0
p,m-Xylene		106.1	79.4	132.2	2.9	30.0
o-Xylene		103.9	80.2	131.0	1.6	30.0
Styrene		107.2	69.5	126.7	2.8	30.0
Isopropylbenzene		105.5	74.4	121.5	3.0	30.0
Bromoform		118.9	69.4	128.0	0.2	30.0
1,1,2,2-Tetrachloroethane		117.2	79.8	126.3	0.7	30.0
1,2,3-Trichloropropane		110.1	78.3	138.8	1.5	30.0
n-Propylbenzene		104.7	82.0	130.7	1.5	30.0
Bromobenzene		111.4	78.7	124.6	2.2	30.0
1,3,5-Trimethylbenzene		108.8	81.3	128.9	2.8	30.0
tert-Butylbenzene		98.9	80.7	128.9	2.9	30.0
1,2,4-Trimethylbenzene		107.9	81.4	130.8	2.6	30.0
sec-Butylbenzene		101.4	77.4	129.8	0.1	30.0
p-Isopropyltoluene		100.8	79.8	137.5	0.7	30.0
1,3-Dichlorobenzene		104.1	77.0	131.3	1.2	30.0
1,4-Dichlorobenzene		100.7	20.7	137.7	2.2	30.0
1,2-Dichlorobenzene		106.6	10.0	166.2	0.2	30.0
1,2,3-Trimethylbenzene		100.9	76.3	124.2	1.0	30.0
n-Butylbenzene		100.7	80.0	133.3	1.6	30.0
Hexachloroethane		117.1	23.8	138.1	1.5	30.0
1,2-Dibromo-3-chloropropane		129.3	21.2	189.4	4.4	30.0
1,2,4-Trichlorobenzene		124.2	27.4	143.4	2.6	30.0
1,2,3-Trichlorobenzene		122.2	75.4	131.4	1.1	30.0
Naphthalene		117.0	32.9	135.8	2.3	30.0
2-Methylnaphthalene		132.2	25.5	165.5	2.5	30.0

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

125013

CHAIN OF CUSTODY RECORD

REPORT TO

- CONTACT NAME: Clifford Yantz / Kevin Schneider
- COMPANY: Ramboll
- ADDRESS: 2090 Commonwealth Blvd
- CITY: Ann Arbor STATE: MI ZIP CODE: 48105
- PHONE NO.: 313-333-0211 FAX NO.: P.O. NO.:
- E-MAIL ADDRESS: clifford.yantz@ramboll.com QUOTE NO.:

INVOICE TO

- ☒ SAME
- CONTACT NAME:
- COMPANY:
- ADDRESS:
- CITY: STATE: ZIP CODE:
- PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER Hemphill Road Industrial Land

SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn
48038.01	5/1/23	1100	OBG OSMW-1	GW	5		3	2					X	X	X
.02	5/1/23	1148	OBG OSMW-2	GW	5		3	2					X	X	X
.03	5/1/23	—	Trip Blank-050123	L	1		1						X		

KS

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

Special Instructions: Dissolved metals were field filtered

	SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY:	[signature] ☒ Sampler	5/1/23	1245
RECEIVED BY:	[signature]	5/1/23	12:45
RELINQUISHED BY:	[signature]	5/1/23	15:23
RECEIVED BY:	[signature]	5/1/23	1525
RELINQUISHED BY:			
RECEIVED BY:			

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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