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Project No. 0204793-000

Mary Monahan, Project Coordinator
Toxics Cleanup Program - Central Regional Office
Washington State Department of Ecology
1250 West Alder Street
Union Gap, Washington 98903-0009

Subject: Final Baseline Groundwater Monitoring Event Report - October 2023
Former Tiger Oil West Nob Hill Boulevard Site
Facility Site ID: 469, Cleanup Site ID: 4919
2312 West Nob Hill Boulevard, Yakima, Washington 98902

Dear Mary:

On 9 through 11 October 2023, Haley & Aldrich, Inc. (Haley & Aldrich) conducted a baseline groundwater monitoring event at the former Tiger Oil West Nob Hill Boulevard Site (Washington State Department of Ecology [Ecology] Facility Site No. 469, Cleanup Site No. 4919), located at 2312 West Nob Hill Boulevard, in Yakima, Washington (Figure 1).

This event fulfills the groundwater monitoring event requirement specified in the Ecology-approved interim remedial action completion report (Maul Foster Alongi, Inc. [MFA], 2015a), as well as the progress reporting requirement specified in Section IX of the Amended Consent Decree, No. 02-2-00956-2; and Section 9-1 of the amended cleanup action plan (Ecology, 2014). Monitoring activities were conducted as described in the groundwater monitoring plan (GMP) (MFA, 2015b), as revised in the amended compliance monitoring plan memoranda (MFA, 2017, 2018), and in accordance with the monitoring requirements outlined in the Washington State Model Toxics Control Act (MTCA) (Washington Administrative Code 173-340-410).

Background information on the Site's previous environmental site cleanup activities (2015 interim remedial action and 2019 *in situ* light non-aqueous phase liquid [LNAPL]), investigations (2018 high resolution site characterization (HRSC) and soil vapor point installation, and 2019 additional laboratory analyses) are provided in MFA's Semiannual Groundwater Monitoring Report - November 2021 (MFA, 2019 and 2022).

The objectives of the baseline groundwater monitoring event were to:

- Conduct a baseline groundwater monitoring event at the Site involving its 23 monitoring wells (including 17 compliance monitoring wells) with additional monitoring/sampling activities for

Microbial Insight QuantArray Petroleum and QuantArray Chlor analyses, at four selected monitoring wells;

- Obtain an updated baseline understanding of the Site's groundwater quality conditions and the groundwater environment;
- Obtain insights into the existing microbial populations conditions at selected monitoring wells located within and downgradient of the proposed nutrient enhanced biological stimulation (NEBS) pilot study interim remedial action. Note: laboratory analytical results and findings from the microbial analyses, to be utilized for the proposed NEBS pilot study interim remedial action, will be presented under separate cover;
- Evaluate the potential changes in the gasoline-range petroleum hydrocarbons impacted plume at the Site since the last completed semi-annual groundwater monitoring event in November 2021;
- Evaluate the potential changes in the halogenated volatile organic compounds (VOCs) impacted plume at the Site since the last completed semi-annual groundwater monitoring event in November 2021;
- Evaluate the potential ongoing biodegradation of the commingled gasoline-range petroleum hydrocarbons and/or halogenated VOCs impacted plume; and
- Evaluate the groundwater flow directions and potential seasonal variations at the Site during the October 2023 baseline groundwater monitoring event.

Scope of Services

To accomplish the above objectives, Haley & Aldrich conducted the baseline groundwater monitoring event at the Property's 23 monitoring wells. Groundwater monitoring and sampling procedures used during this event were completed in general accordance with the Site's GMP and industry-standard sampling protocols. Our scope of services included:

- Measure the static water level at the Site's 23 monitoring wells (Figure 1) using a water level probe.
- Measure the thickness of the encountered light non-aqueous phase liquid (LNAPL; i.e., free product) using an oil/water interface meter.
- Conduct groundwater monitoring/sampling activities at the Site's designated 17 compliance monitoring wells.
- Observe and document the integrity of each well seal and cap to ensure potential surficial contaminants would not enter the well.
- Conduct groundwater monitoring and sampling activities in general accordance with industry standard sampling protocols and consistent with the Site's GMP with at least one pore volume extracted from each well and field parameters stabilized before sample collection.
- Measure the water quality parameters with a YSI meter and a turbidity meter before sample collection and record the parameters on field sampling data sheets.

- Collect groundwater samples using low-flow sampling techniques involving a peristaltic pump and newly replaced dedicated disposable tubing.
- Collect a field duplicate groundwater sample at YMW-2.
- Analyze groundwater samples from non-LNAPL-containing monitoring wells for the following constituents of concern (COCs) and geochemical parameters:
 - Gasoline-range total petroleum hydrocarbons (TPHs) by Northwest TPH Method Gx;
 - Petroleum fuel associated VOCs, specifically benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene by U.S. Environmental Protection Agency (EPA) Method 8260D;
 - Halogenated VOCs by EPA Method 8260D;
 - Nitrate by EPA Method 353.2;
 - Total manganese by EPA Method 200.8;
 - Sulfate by American Society for Testing and Materials (ASTM) International D516-07;
 - Methane by EPA National Risk Management Research Laboratory Method 175; and
 - Ferrous iron will be measured in the field, using a Hach test kit (Model IR-18C).
- Monitor the Site's four soil vapor points monitoring wells (SVP-01 through SVP-04) screened interval (shallow, medium, and deep) using a multi-gas meter.
- Store the generated investigation-derived waste (IDW), such as purged water, during the groundwater monitoring event in 55-gallon Washington State Department of Transportation-approved drums and temporarily stored on Site. The waste will be disposed of once a sufficient number of drums (at least four) have been accumulated and the characterization of the IDW has been completed and approved by the regulated disposal facility.

Site Groundwater Conditions

Our understanding of the Site's hydrogeologic conditions is based on the previous completed environmental investigations, HRSC, groundwater monitoring events, and the Site's network of 23 monitoring wells (Figure 1). Based on these findings, our estimated extent of residual LNAPL is presented in Figure 2.

The matrix of the unconfined shallow aquifer appears to be interbedded sands and silts. The depths to groundwater are variable at the Site, ranging approximately from 9 to 13 feet below ground surface, and is influenced by seasonal fluctuations in the groundwater table due to local irrigation practices. The annual irrigation schedule is from April through September, which appears to impact the groundwater table, causing it to rise between 2 to 4 feet during that period.

The direction of groundwater flow at the Site, based on previous quarterly groundwater monitoring events completed from November 2015 through November 2018 and subsequent semi-annual groundwater monitoring events, is generally southeast with tangent to the east. Figure 3 presents the groundwater potentiometric map drafted for the October 2023 baseline groundwater monitoring event.

Field Procedures

MONITORING WELL SAMPLING

On 9 and 10 October 2023, a baseline groundwater monitoring event was conducted.

The integrity of each well seal and cap was evaluated and documented, followed by measuring the depth to groundwater at the Site's 23 monitoring wells, from the top of the casing elevation to the nearest 0.01 foot. An oil/water interface meter was used at all monitoring wells to evaluate presence of LNAPL and measure its thickness, if present.

Purging and sampling activities were performed at the Site's 17 compliance monitoring wells, using a peristaltic pump and low-flow sampling techniques. During purging, field parameters were measured to evaluate the effectiveness of purging. Groundwater was pumped directly into laboratory-supplied containers. To prevent cross-contamination between sample locations, new disposable equipment (e.g., nitrile gloves and Teflon® tubing) were used for each groundwater sample. Field sampling data sheets are provided in Appendix A.

The groundwater samples were submitted for laboratory analyses for the COCs and geochemical parameters, as indicated above, to evaluate the potential biodegradation process of TPH and PCE at the Site. Depth to water measurements and calculated groundwater elevations are summarized in Table 1. The monitoring wells conditions and integrity are summarized in Table 2. Final water quality parameters (pH, temperature, dissolved oxygen, conductivity, oxidation reduction potential, and turbidity) are summarized in Table 3.

Purged groundwater from the monitoring activities was contained in Washington State Department of Transportation-approved 55-gallon steel drums for off-site transport and disposal. The drums are currently stored at the southeast corner of the Xochimilco Mexican Restaurant parking lot. The disposal manifests and landfill receipts will be provided separately from this report.

SOIL VAPOR POINTS MONITORING WELLS

On 10 October 2023, the Site's four soil vapor point (SVP-01 through SVP-04) screen interval (shallow, medium, and deep) were monitored using a multigas meter. The following gases were measured at each screened interval:

- Methane
- Carbon dioxide
- Oxygen

The soil vapor point monitoring wells are shown in Figure 1. The soil vapor monitoring results are presented in Table 4.

Results and Discussion

Laboratory analytical reports are provided in Appendix B. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they meet project-specific data quality objectives. A data validation memorandum summarizing data evaluation procedures, data usability, and deviations from specific field and/or laboratory methods for the October 2023 groundwater quality data is included as Appendix C.

SUMMARY OF FINDINGS

Groundwater data and groundwater analytical results indicate the following:

- LNAPL was encountered only at KMW-10 (0.4 feet) and MW-7 (0.03 feet) (Table 1 and Figure 3). During the May/November 2021 semi-annual groundwater monitoring events, up to seven monitoring wells had observed indications of LNAPL (Table 1).
- The direction of groundwater flow during the October 2023 groundwater monitoring event was southeast (Figure 4). The groundwater flow direction for the October 2023 groundwater monitoring event, to the southeast, continues to reflect the local and regional groundwater flow direction. Cross-sections showing the water level and LNAPL thickness during the October 2023 monitoring event are presented on Figure 5. The decreasing trends in presence of residual LNAPL at the Site are exhibited in Figure 6.
- Isoconcentration contours of gasoline-range TPH and benzene, exhibited in Figures 7 and 8, respectively, show notable decreases in both concentrations (Table 4) and estimated areal extent of the dissolved-phase plume of gasoline-range TPH and benzene.
- The gasoline-range TPH and benzene dissolved phase plume, at the core plume monitoring wells, is progressively biodegrading at the source area, as exhibited by the trend graphs for the core dissolved phase plume monitoring wells (MW-11, S-2, YMW-1, YMW-2, YMW-3, MW-13, and MWG-3 - Figure 9 and 11, respectively). This trend is also demonstrated by:
 - continuing trends of dissolved oxygen (maintaining an aerobic subsurface environment), decreasing oxidation-reduction potential, and overall increasing conductivity (Table 3); and
 - geochemical parameters where trends of increasing metabolic byproducts (such as ferrous iron and manganese) and overall, generally decreasing redox potential are also indicative of biodegradation of TPHs (Table 5).
- In contrast, groundwater analytical results from the May 2021 to October 2023 groundwater monitoring event indicated a steady increasing trend in gasoline-range TPH and benzene concentrations at the periphery monitoring wells (KMW-6 and KMW-16) during this time period, as exhibited in the trend graphs of Figures 10 and 12 and Table 4. Elevated detections of benzene at KMW-6 (69 micrograms per liter [$\mu\text{g}/\text{L}$]) and at KMW-16 (260 $\mu\text{g}/\text{L}$) and gasoline-range TPH at KMW-16 (2,500 $\mu\text{g}/\text{L}$) are above the MTCA Method A CULs for benzene (5 $\mu\text{g}/\text{L}$) and gasoline-range TPH (800 $\mu\text{g}/\text{L}$ with presence of benzene).

- However, sentry monitoring wells, KMW-14 and KMW-15, located at the distal end of the dissolved phase plume in the southeast area of the Site and downgradient and crossgradient, respectively, of KMW-16 continue to exhibit no detectable concentrations of gasoline-range TPH (Table 4, Figures 7 and 8). Benzene was not exhibited at KMW-14, and a detection of 0.3 µg/L was exhibited at KMW-15.
- Petroleum sheen was observed during the groundwater monitoring and purging activities at MW-9, approximately 20 minutes into the monitoring activities. Therefore, a groundwater sample was not collected from this well (Appendix A).
- Concentrations of naphthalene in the dissolved phase plume continue to be exhibited at levels (390 µg/L to 1,500 µg/L) exceeding the MTCA Method A CUL (160 µg/L) at monitoring wells located near the source area and immediately downgradient, including at YMW-1, YMW-3, MW-11, MWG-3 (Figure 14 and Table 4).
- A lack of indications of reductive dechlorination of PCE are exhibited by the lack of increases in the breakdown products of PCE (cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) (Table 6) and a lack of an anaerobic groundwater environment to support anaerobic dechlorination of PCE. Furthermore, trends of decreasing key indicator parameters (oxygen, nitrate, and sulfate) (Table 5) are also not apparent; thus, further indicative of a groundwater environment that is not reducing for anaerobic dechlorination of PCE to occur.
- Soil gas data (methane, carbon dioxide, and oxygen) from soil vapor points monitoring wells support indications that the residual LNAPL is continuing to undergo biodegradation with trends of increasing methane and carbon dioxide and decreasing oxygen (Table 8), notably at the medium- and deep-screen intervals at the soil vapor monitoring points SVP-01 through SVP-04. Trend graphs for methane at the shallow-, medium-, and deep-screened intervals (Figures 15 through 17) and for carbon dioxide at the shallow-screened interval (Figure 18) support the indications of continuing biodegradation trends of the residual LNAPL.

CONCLUSION AND RECOMMENDATIONS

Indications of ongoing aerobic biodegradation activities, as exhibited in the cumulative groundwater analytical results, groundwater quality field parameters, and geochemical parameters, are favorable for the continuation trend of decreasing concentrations of gasoline-range TPHs and BTEX constituents in the source area and immediate downgradient monitoring wells in the northwest area of the petroleum dissolved phase plume.

The soil gas monitored in the vadose zone at the four soil vapor points monitoring wells provide an understanding of the soil vapor gradients in three separate depths in the vadose zone, above the residual LNAPL. Overall, the soil vapor gradients appear to indicate profiles of oxygen decreasing with depth to the residual LNAPL, and increasing profiles of methane and carbon dioxide with depth to the residual LNAPL. Taking the recent sets of soil vapor data from May 2020 through October 2023 into consideration with the previous natural source zone depletion (NSZD) evaluation and findings at the Site (conducted by MFA in 2018), it appears the residual LNAPL is continuing to naturally degrade at a low NSZD rate.

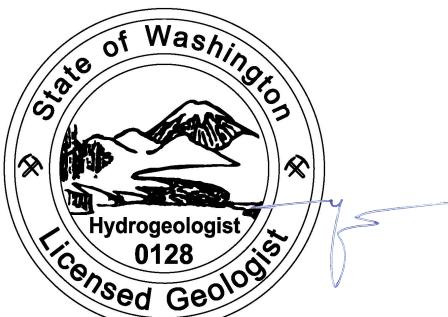
The decreasing thickness of residual LNAPL at KMW-10 and MW-7 appears to support this observation. Additionally, the lack of usually observed presence of LNAPL at MW-11 and MW-13, located at the source area and inferred downgradient to the southeast, respectively, during the October 2023 groundwater monitoring event may also be additional indications of the biodegradation of the residual LNAPL.

The PCE-dissolved-phase plume appears to be relatively unchanged based on the collective groundwater analytical results of PCE and its breakdown products from November 2019 to October 2023. MW-10 and KMW-7, the two westernmost and upgradient monitoring wells at the Site, continue to exhibit PCE in the range of approximately 23 µg/L to 33 µg/L with no obvious indications of reductive dechlorination of PCE. HVOC groundwater analytical results for the central and distal end of the PCE-dissolved-phase plume (YMW-1/MWG-2/KMW-5 and KMW-15/KMW-16, respectively) also generally reflect this relatively unchanged condition. This observation is supported by the groundwater quality field parameters data indicative of a non-anaerobic subsurface environment, no apparent biodegradation activities that would impact the redox potential, electrical conductivity. Additionally, there is also no apparent decreasing trends in the terminal electron acceptors (oxygen, nitrate, and sulfate) and an aerobic subsurface environment. Collectively, these data trends and data sets appear to indicate that the groundwater environment is not supportive of a reducing environment, necessary for anaerobic dechlorination of PCE to occur.

Haley & Aldrich recommends conducting quarterly groundwater monitoring events after the completion of the upcoming Nutrients Enhanced Biological Stimulation interim remedial action pilot study to further evaluate the efficacy of this interim remedial action and to continue evaluating the groundwater quality conditions and groundwater environment at the Site.

Please contact us if you have any questions.

Sincerely yours,
HALEY & ALDRICH, INC.



YEN-VY VAN

Yen-Vy Van, L.H.G.
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Attachments:

References

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- Appendix A - Field Sampling Data Sheets
- Appendix B - Analytical Laboratory Report
- Appendix C - Quality Assurance Review

cc: Bill Preston, City of Yakima

References

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TABLES

TABLE 1
SUMMARY OF WATER LEVEL DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Well Identifier	Reference Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet)	LNAPL Thickness (feet)	Depth to Water Corrected for Presence of LNAPL (feet)(a)(1)	Groundwater Elevation (feet, NAVD 88)	Change in Groundwater Elevation Level (feet)(b)
KMW-5	1082.85	5/27/2015	9.11	-	-	1073.74	-
		2/1/2016	8.78	-	-	1074.07	0.33
		5/9/2016	8.72	-	-	1074.13	0.06
		7/25/2016	8.1	-	-	1074.75	0.62
		11/7/2016	8.35	-	-	1074.50	-0.25
		2/14/2017	8.95	-	-	1073.90	-0.6
		5/8/2017	8.51	-	-	1074.34	0.44
		8/14/2017	7.64	-	-	1075.21	0.87
		11/6/2018	8.62	-	-	1074.23	-0.98
		5/7/2019	9.17	-	-	1073.68	-0.55
		11/4/2019	8.6	-	-	1074.25	0.57
		5/4/2020	9.7	-	-	1073.15	-1.1
		11/2/2020	8.68	-	-	1074.17	1.02
		5/3/2021	9.61	-	-	1073.24	-0.93
		11/1/2021	8.57	-	-	1074.28	1.04
		10/9/2023	8.37	-	-	1074.48	0.2
KMW-6	1083.58	5/28/2015	8.82	-	-	1074.76	-
		11/3/2015	8.43	-	-	1075.15	0.39
		2/1/2016	8.45	-	-	1075.13	-0.02
		5/9/2016	8.36	-	-	1075.22	0.09
		7/25/2016	7.71	-	-	1075.87	0.65
		11/7/2016	7.94	-	-	1075.64	-0.23
		2/15/2017	8.65	-	-	1074.93	-0.71
		5/8/2017	8.06	-	-	1075.52	0.59
		8/14/2017	7.18	-	-	1076.40	0.88
		11/6/2018	8.3	-	-	1075.28	-1.12
		5/7/2019	8.96	-	-	1074.62	-0.66
		11/4/2019	8.26	-	-	1075.32	0.7
		5/4/2020	9.53	-	-	1074.05	-1.27
		11/2/2020	8.4	-	-	1075.18	1.13
		5/3/2021	9.44	-	-	1074.14	-1.04
		11/1/2021	8.22	-	-	1075.36	1.22
		10/9/2023	8.08	-	-	1075.50	0.14
KMW-7	1091.96	5/29/2015	13.47	-	-	1078.49	-
		11/2/2015	12.64	-	-	1079.32	0.83
		2/1/2016	12.85	-	-	1079.11	-0.21
		5/9/2016	12.69	-	-	1079.27	0.16
		7/25/2016	11.98	-	-	1079.98	0.71
		11/7/2016	12.09	-	-	1079.87	-0.11
		2/14/2017	13.1	-	-	1078.86	-1.01
		5/8/2017	12.3	-	-	1079.66	0.8
		8/14/2017	11.4	-	-	1080.56	0.9
		11/6/2018	12.45	-	-	1079.51	-1.05
		5/7/2019	13.4	-	-	1078.56	-0.95
		11/4/2019	12.36	0.01	12.35	1079.61	1.0475
		5/4/2020	14	-	-	1077.96	-1.6475
		11/2/2020	12.51	-	-	1079.45	1.49
		5/3/2021	13.91	-	-	1078.05	-1.4
		11/1/2021	12.49	-	-	1079.47	1.42
		10/9/2023	12.16	-	-	1079.80	0.33
KMW-8	1092.11	5/29/2015	13.48	-	-	1078.63	-
		11/4/2019	12.33	-	-	1079.78	1.15
		5/4/2020	14.03	-	-	1078.08	-1.7
		11/2/2020	12.7	-	-	1079.41	1.33
		5/3/2021	13.91	-	-	1078.20	-1.21
		11/1/2021	12.45	-	-	1079.66	1.46
KMW-10(d)	1090.63	5/29/2015	13.1	-	-	1077.53	-
		7/25/2016	12.25	0.43	11.93	1078.70	1.1725
		11/7/2016	12.5	0.58	12.07	1078.57	-0.1375
		2/15/2017	13.3	0.4	13.00	1077.63	-0.935
		5/8/2017	12.51	0.32	12.27	1078.36	0.73
		8/14/2017	11.48	0.29	11.26	1079.37	1.0075
		11/6/2018	12.7	0.37	12.42	1078.21	-1.16
		5/7/2019	13.4	0.21	13.24	1077.39	-0.82
		11/4/2019	12.37	0.09	12.30	1078.33	0.94
		5/4/2020	13.85	0.13	13.75	1076.88	-1.45
		11/2/2020	12.91	0.61	12.45	1078.18	1.3
		5/3/2021	14.17	0.61	13.71	1076.92	-1.26
		11/1/2021	12.91	0.61	12.45	1078.18	1.26
		10/9/2023	12.41	0.4	12.11	1078.52	0.3425
KMW-14	1082.4	5/28/2015	12.66	-	-	1069.74	-
		11/3/2015	12.37	-	-	1070.03	0.29
		2/1/2016	12.27	-	-	1070.13	0.1
		5/9/2016	12.29	-	-	1070.11	-0.02
		7/25/2016	11.86	-	-	1070.54	0.43
		11/7/2016	11.98	-	-	1070.42	-0.12
		2/15/2017	12.62	-	-	1069.78	-0.64
		5/8/2017	12.02	-	-	1070.38	0.6
		8/14/2017	11.38	-	-	1071.02	0.64
		11/6/2018	12.22	-	-	1070.18	-0.84
		5/7/2019	12.88	-	-	1069.52	-0.66
		11/4/2019	12.3	-	-	1070.10	0.58
		5/4/2020	13.39	-	-	1069.01	-1.09
		11/2/2020	12.44	-	-	1069.96	0.95
KMW-15	1083.54	5/3/2021	13.39	-	-	1069.01	-0.95
		11/1/2021	12.17	-	-	1070.23	1.22
		10/9/2023	12.05	-	-	1070.35	0.12
		11/3/2015	10.9	-	-	1072.64	-
		2/1/2016	10.86	-	-	1072.68	0.04
		5/9/2016	10.88	-	-	1072.66	-0.02
		7/25/2016	10.36	-	-	1073.18	0.52
KMW-16	1083.27	11/7/2016	10.51	-	-	1073.03	-0.15
		2/15/2017	11.14	-	-	1072.40	

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KMW-18	1085.34	5/27/2015	9.7	-	-	1075.64	-
		11/4/2019	9.21	-	-	1076.13	0.49
		5/4/2020	11.63	-	-	1073.71	-2.42
		11/2/2020	9.16	-	-	1076.18	2.47
		11/1/2021	6.16	-	-	1079.18	3.00
		10/9/2023	9.01	-	-	1076.33	-2.85
KMW-24	1087.47	5/29/2015	10.25	-	-	1077.22	-
		11/6/2019	9.37	-	-	1078.10	0.88
		11/2/2020	9.4	-	-	1078.07	-0.03
		5/3/2021	10.48	-	-	1076.99	-1.08
		11/1/2021	9.56	-	-	1077.91	0.92
		10/9/2023	9.18	-	-	1078.29	0.38
MW-7	1090.3	5/29/2015	13.78	1.44	12.70	1077.60	-
		11/4/2015	12.2	0.29	11.98	1078.32	0.72
		2/1/2016	12.3	0.29	12.08	1078.22	-0.10
		5/9/2016	12.21	0.32	11.97	1078.33	0.11
		7/25/2016	11.5	0.3	11.28	1079.03	0.69
		11/7/2016	11.58	0.28	11.37	1078.93	-0.09
		2/15/2017	12.42	0.27	12.22	1078.08	-0.85
		5/8/2017	11.77	0.18	11.64	1078.67	0.58
		8/14/2017	10.55	0.21	10.39	1079.91	1.24
		11/6/2018	11.95	0.2	11.80	1078.50	-1.41
		5/7/2019	12.76	0.18	12.63	1077.68	-0.83
		11/4/2019	11.67	-	-	1078.63	0.96
		5/4/2020	13.26	0.26	13.07	1077.24	-1.40
		11/2/2020	11.86	0.13	11.76	1078.54	1.30
		5/3/2021	13.32	0.38	13.04	1077.27	-1.27
		11/1/2021	11.91	0.1	11.84	1078.47	1.20
		10/9/2023	11.55	0.03	11.53	1078.77	0.31
MW-9	1091.48	5/28/2015	14.2	-	-	1077.28	-
		11/3/2015	13.98	-	-	1077.50	0.22
		2/1/2016	14.21	-	-	1077.27	-0.23
		5/9/2016	14.11	-	-	1077.37	0.10
		7/25/2016	13.43	-	-	1078.05	0.68
		11/7/2016	13.59	-	-	1077.89	-0.16
		2/15/2017	14.45	-	-	1077.03	-0.86
		5/8/2017	13.74	-	-	1077.74	0.71
		8/14/2017	12.78	-	-	1078.70	0.96
		11/6/2018	13.95	-	-	1077.53	-1.17
		5/7/2019	14.79	-	-	1076.69	-0.84
		11/4/2019	13.92	-	-	1077.56	0.87
		5/4/2020	16.68	1.66	15.44	1074.80	-2.76
		11/2/2020	15.5	1.84	14.12	1075.98	1.18
		5/3/2021 (e)	14.79	2.79	-	1078.79	-
		11/1/2021	13.58	NM ^(g)	-	1077.90	-
		10/9/2023	13.3	-	-	1078.18	-
MW-10	1092.11	5/29/2015	13.19	-	-	1078.92	-
		11/2/2015	12.36	-	-	1079.75	0.83
		2/1/2016	12.54	-	-	1079.57	-0.18
		5/9/2016	12.35	-	-	1079.76	0.19
		7/25/2016	11.6	-	-	1080.51	0.75
		11/7/2016	11.7	-	-	1080.41	-0.10
		2/14/2017	12.71	-	-	1079.4	-1.01
		5/8/2017	11.96	-	-	1080.15	0.75
		8/14/2017	11	-	-	1081.11	0.96
		11/6/2018	12.1	-	-	1080.01	-1.10
		5/7/2019	13.06	-	-	1079.05	-0.96
		11/4/2019	12.05	0.02000005	12.03	1080.08	1.03
		5/4/2020	13.69	-	-	1078.42	-1.66
		11/2/2020	12.18	-	-	1079.93	1.51
		5/3/2021	13.62	-	-	1078.49	-1.44
		11/1/2021	12.13	-	-	1079.98	1.49
		10/9/2023	11.8	-	-	1080.31	0.33
MW-11	1091.68	5/29/2015	14.51	0.55	14.10	1077.58	-
		11/4/2015	13.35	0.01	13.34	1078.34	0.76
		2/1/2016	13.52	0.1	13.45	1078.24	-0.10
		5/9/2016	13.41	0.1	13.34	1078.35	0.11
		7/25/2016	12.62	-	-	1079.06	0.71
		11/7/2016	12.7	-	-	1078.98	-0.08
		2/14/2017	13.7	0.01	13.69	1077.99	-0.99
		5/8/2017	12.93	-	-	1078.75	0.76
		8/14/2017	11.95	-	-	1079.73	0.98
		11/6/2018	13.05	0.01	13.04	1078.64	-1.09
		5/7/2019	14.15	0.17	14.02	1077.66	-0.98
		11/4/2019	13.01	0.02	13.00	1078.69	1.03
		5/4/2020	14.94	0.44	14.61	1077.07	-1.62
		11/2/2020	13.13	0.01	13.12	1078.56	1.49
		5/3/2021	14.66	0.19	14.52	1077.16	-1.39
		11/1/2021	13.1	0.01	13.09	1078.59	1.42
		10/9/2023	12.79	-	-	1078.89	0.30
MW-13	1091.27	5/28/2015	10.1	-	-	1081.17	-
		11/4/2015	14.03	0.2	13.88	1077.39	-3.78
		2/1/2016	14.1	0.21	13.94	1077.33	-0.06
		5/9/2016	13.98	0.18	13.85	1077.43	0.10
		7/25/2016	13.12	0.02	13.11	1078.17	0.74
		11/7/2016	13.3	0.05	13.26	1078.01	-0.16
		2/14/2017	14.19	0.04	14.16	1077.11	-0.90
		5/8/2017	13.48	0.04	13.45	1077.82	0.71
		8/14/2017	12.45	-	-	1078.82	1.00
		11/6/2018	13.6	-	-	1077.67	-1.15

TABLE 1
SUMMARY OF WATER LEVEL DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Well Identifier	Reference Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet)	LNAPL Thickness (feet)	Depth to Water Corrected for Presence of LNAPL (feet)(a)(1)	Groundwater Elevation (feet, NAVD 88)	Change in Groundwater Elevation Level (feet)(b)
MWG-3	1084.15	5/28/2015	7.6	-	-	1076.55	-
		11/3/2015	7.1	0.06	7.06	1077.10	0.55
		2/1/2016	7.1	0.08	7.04	1077.11	0.02
		5/9/2016	7	0.04	6.97	1077.18	0.07
		7/25/2016	6.4	0.05	6.36	1077.79	0.61
		11/7/2016	6.61	0.11	6.53	1077.62	-0.16
		2/14/2017	7.27	0.02	7.26	1076.90	-0.73
		5/8/2017	6.68	0.03	6.66	1077.49	0.60
		8/14/2017	5.81	-	-	1078.34	0.85
		11/6/2018	6.9	0.05	6.86	1077.29	-1.05
		5/7/2019	7.6	0.02	7.59	1076.57	-0.72
		11/4/2019	6.8	-	-	1077.35	0.78
		5/4/2020	8.12	-	-	1076.03	-1.32
		11/2/2020	6.9	0.01	6.89	1077.26	1.23
		5/3/2021	8.05	0.01	8.04	1076.11	-1.15
		11/1/2021	6.9	-	-	1077.25	1.14
		10/9/2023	6.6	-	-	1077.55	0.30
S-1	1088.82	5/28/2015	11.79	-	-	1077.03	-
		11/4/2019	10.81	-	-	1078.01	0.98
		11/2/2020	10.97	-	-	1077.85	-0.16
		5/3/2021	12.26	-	-	1076.56	-1.29
		11/1/2021	10.89	-	-	1077.93	1.37
S-2	1085.74	5/27/2015	8.73	-	-	1077.01	-
		11/7/2016	7.67	-	-	1078.07	1.06
		2/14/2017	8.41	-	-	1077.33	-0.74
		5/8/2017	7.88	-	-	1077.86	0.53
		8/14/2017	7.02	-	-	1078.72	0.86
		11/6/2018	8.1	-	-	1077.64	-1.08
		5/7/2019	8.7	-	-	1077.04	-0.60
		11/4/2019	8.01	-	-	1077.73	0.69
		5/4/2020	9.18	-	-	1076.56	-1.17
		11/2/2020	7.99	-	-	1077.75	1.19
		5/3/2021	9.04	-	-	1076.7	-1.05
		11/1/2021	8.02	-	-	1077.72	1.02
		10/10/2023	7.7	-	-	1078.04	0.32
YMW-1	1089.05	5/29/2015	12.0	-	-	1077.05	-
		11/4/2015	11.4	-	-	1077.65	0.6
		2/1/2016	11.49	-	-	1077.56	-0.09
		5/9/2016	11.36	-	-	1077.69	0.13
		7/25/2016	10.69	-	-	1078.36	0.67
		11/7/2016	10.79	-	-	1078.26	-0.1
		2/15/2017	11.65	-	-	1077.4	-0.86
		5/8/2017	11.01	-	-	1078.04	0.64
		8/14/2017	10.03	-	-	1079.02	0.98
		11/6/2018	11.25	-	-	1077.8	-1.22
		5/7/2019	12.01	-	-	1077.04	-0.76
		11/4/2019	11.09	-	-	1077.96	0.92
		5/4/2020	12.46	-	-	1076.59	-1.37
		11/2/2020	11.14	-	-	1077.91	1.32
		5/3/2021	12.38	-	-	1076.67	-1.24
		11/1/2021	11.27	-	-	1077.78	1.11
		10/10/2023	10.9	-	-	1078.15	0.37
YMW-2	1090.86	5/29/2015	13.73	-	-	1077.13	-
		11/4/2015	13.1	-	-	1077.76	0.63
		2/1/2016	13.17	-	-	1077.69	-0.07
		5/9/2016	13.08	-	-	1077.78	0.09
		7/25/2016	12.3	-	-	1078.56	0.78
		11/7/2016	12.44	-	-	1078.42	-0.14
		2/15/2017	13.36	-	-	1077.5	-0.92
		5/8/2017	12.65	-	-	1078.21	0.71
		8/14/2017	11.12	-	-	1079.74	1.53
		11/6/2018	12.9	-	-	1077.96	-1.78
		5/7/2019	13.71	-	-	1077.15	-0.81
		11/4/2019	12.73	-	-	1078.13	0.98
		5/4/2020	14.21	-	-	1076.65	-1.48
		11/2/2020	12.85	-	-	1078.01	1.36
		5/3/2021	14.13	-	-	1076.73	-1.28
YMW-3	1089.53	11/1/2021	12.84	-	-	1078.02	1.29
		10/9/2023	12.54	-	-	1078.32	0.3
		5/29/2015	12.28	-	-	1077.25	-
		11/4/2015	11.68	0.0600004	11.63	1077.895	0.65
		2/1/2016	11.75	-	-	1077.78	-0.12
		5/9/2016	11.62	-	-	1077.91	0.13
		7/25/2016	10.92	-	-	1078.61	0.70
		11/7/2016	11.05	-	-	1078.48	-0.13
		2/15/2017	11.9	-	-	1077.63	-0.85
		5/8/2017	11.21	-	-	1078.32	0.69
		8/14/2017	10.18	-	-	1079.35	1.03
		11/6/2018	11.42	-	-	1078.11	-1.24
		5/7/2019	12.24	-	-	1077.29	-0.82
		11/4/2019	11.31	-	-	1078.22	0.93

ABBREVIATIONS AND NOTES:

- Not Applicable
- LNAPL: Light Nonaqueous-Phase Liquid
- NAVD 88: North American Vertical Datum of 1988
- NA: not applicable
- NM: Not Measured
- (a) Water level corrected for presence of LNAPL, using assumed product density of 0.75 grams per cubic centimeter.
- (b) Change in water level is relative to two most recent sampling events.
- (c) Inconsistent detections of free product using oil-water interface probe.
- (d) Monitoring well KMW-10 is included in monitoring well network only for evaluating presence of LNAPL and depth to water.
- (e) Thickness of product is an estimate due to a clay-like substance present in the well.
- (1) API. 2000. Non-aqueous phase liquid (NAPL) mobility limits in soil. American Petroleum Institute, Houston, Texas. June.
- (2) Monitoring well KMW-16 was not sampled because of inaccessibility caused by snow pile.
- (3) Thickness of product was not able to be measured due to a clay-like substance present in the well.

TABLE 2
MONITORING WELLS CONDITION SUMMARY
FORMER TIGER OIL NOB HILL SITE
YAKIMA, WASHINGTON

PAGE 1 OF 1

Location	Date	Well Diameter (inches)	Monument	Gasket	Lock	Functional Compression Plug	Number of Bolts	Comments
KMW-5	10/9/2023	4	Y	Y	Y	Y	3	
KMW-6	10/9/2023	4	Y	Y	Y	Y	0	Need 3 bolts
KMW-7	10/9/2023	4	Y	Y	Y	Y	0	Need 3 bolts
KMW-14	10/9/2023	4	Y	Y	Y	Y	2	Need 1 bolt
KMW-15	10/9/2023	4	Y	Y	Y	Y	3	
KMW-16	10/9/2023	4	Y	Y	Y	Y	3	
MW-7	10/9/2023	2	Y	Y	Y	Y	3	
MW-9	10/9/2023	2	Y	Y	Y	Y	2	
MW-10	10/9/2023	2	Y	Y	Y	Y	0	Need 3 bolts
MW-11	10/9/2023	2	Y	Y	Y	Y	2	
MW-13	10/9/2023	2	Y	Y	Y	Y	2	
MWG-2	10/9/2023	2	Y	Y	Y	Y	2	Need 1 bolt
MWG-3	10/9/2023	2	Y	Y	Y	Y	2	
S-2	10/9/2023	2	Y	Y	Y	Y	3	
YMW-1	10/9/2023	2	Y	Y	Y	Y	2	
YMW-2	10/9/2023	2	Y	Y	Y	Y	2	
YMW-3	10/9/2023	2	Y	Y	Y	Y	2	
* KMW-8	10/9/2023	4	Y	Y	Y	Y	2	Need 1 bolt
* KMW-10	10/9/2023	4	Y	Y	Y	Y	2	Need 1 bolt & 4-inch J Plug
* KMW-18	10/9/2023	4	Y	Y	Y	Y	3	
* KMW-24	10/9/2023	4	Y	Y	Y	Y	3	
* MWG-1	10/9/2023	2	Y	Y	Y	Y	3	
* S-1	10/9/2023	4	Y	Y	Y	Y	3	

Notes:

Y = yes, component integrity checked and confirmed.

* = monitoring well not in the network for conducting monitoring, sampling activities. Only collect depth to water and depth to bottom data.

TABLE 3
SUMMARY OF FIELD PARAMETERS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Date	Field Parameters				
		pH, Field pH units	Temperature Deg C	Conductivity, Field uS/cm	Dissolved Oxygen, Field ug/L	Oxidation Reduction Potential (ORP), Field mv
KMW-5	05/27/2015	7.02	18	1098	340	28.6
	02/02/2016	6.63	14.8	879	1490	256.6
	05/09/2016	7.31	16.1	881	2280	-74
	07/25/2016	6.58	25.8	287	1320	9.4
	11/07/2016	7.16	19	791	2080	-2.1
	02/14/2017	7.21	12.6	3238	2600	-15
	05/08/2017	7.1	16	693	2540	-0.9
	08/16/2017	6.62	28.6	326	950	149.8
	11/06/2018	7.38	18.1	838	3750	37.6
	05/07/2019	6.98	14.7	1195	960	185.4
	11/04/2019	7.27	16.8	734	3790	61.5
	05/04/2020	7.11	17.3	1153	300	69.8
	11/02/2020	7.2	18.4	745	980	222.1
	05/03/2021	7.05	15.7	1101	650	155.3
	11/02/2021	7.19	17.6	878	1780	114.8
	10/10/2023	6.69	20.9	781	540	94
	05/28/2015	7.98	16.5	816	1780	-30.3
KMW-6	11/03/2015	7.05	17.9	965	1690	74.2
	02/01/2016	6.81	15.5	840	2300	293.9
	05/09/2016	7.58	15.3	825	4270	-104
	07/25/2016	7.68	16.7	994	2290	-85.9
	11/08/2016	7.68	17.6	988	1610	120.6
	02/15/2017	7.17	13.9	1138	940	-20.9
	05/08/2017	7.34	14.7	975	1660	-49
	08/15/2017	7.63	18.7	1246	1360	-66.1
	11/06/2018	7.44	18	951	2110	-43.4
	05/07/2019	7.14	14.8	939	2990	84.6
	11/04/2019	7.3	16.7	1030	2700	15.4
	05/04/2020	7.4	16	786	4090	53.8
	11/03/2020	7.4	17	748	3900	50.4
	05/03/2021	7.35	15.3	725	3730	148
	11/01/2021	7.34	17.5	959	2480	10.3
	10/10/2023	7.19	17.8	1132	950	-82
	05/29/2015	7.33	16.6	123	7440	123.6
KMW-7	11/02/2015	7.05	16.6	934	2920	6.3
	02/03/2016	7.4	15.3	832	3390	187
	05/10/2016	7.49	15	799	7980	-50.6
	07/26/2016	7.65	16.1	770	9430	29.9
	11/09/2016	7.68	16.9	775	7930	57.3
	02/14/2017	7.26	15	824	5400	-20.3
	05/09/2017	7.16	14.8	995	2940	-35.4
	08/16/2017	6.86	19.2	817	7870	122.3
	11/08/2018	7.52	15.8	667	7940	70
	05/08/2019	7.15	14.6	822	5720	113.5
	05/05/2020	7.45	16.1	783	8600	49.9
	11/03/2020	7.32	15.9	804	5280	25.2
	05/04/2021	7.39	15.7	701	6090	78.2
	11/02/2021	7.53	16.5	847	3730	122.6
	10/11/2023	7.34	17.5	839	7430	125
	KMW-8	05/29/2015	7.41	17.2	889	7350
KMW-10	05/29/2015	7.27	21.3	795	5240	132.6
	05/28/2015	6.99	15.7	1266	140	-33.5
KMW-14	11/03/2015	6.51	17.9	1230	220	-12.3
	02/02/2016	6.84	15.6	959	380	287.7
	05/09/2016	7.02	16.1	1868	230	-102.8
	07/25/2016	7.02	18.4	1104	1410	61.1
	11/07/2016	7.14	17.4	983	1120	-39.8
	02/15/2017	7.16	13.2	976	430	-36.4
	05/08/2017	7.03	14.1	1053	1470	-6.5
	08/15/2017	7.62	16.9	1097	940	37.3
	11/06/2018	6.95	17.4	1020	730	-25.9
	05/07/2019	6.76	14.2	1120	210	-37.2
	11/05/2019	6.97	16.9	1049	890	-27.2
	05/04/2020	7	16.3	1083	0	-68.2
	11/02/2020	6.84	18.5	1126	190	14.7
	05/03/2021	6.97	16.2	999	240	129.6
	11/01/2021	6.89	18.2	1074	550	95.9
	10/10/2023	6.64	19.3	1389	430	65
KMW-15	11/03/2015	6.95	17.9	930	2060	63.3
	02/02/2016	7.12	15	768	4020	292.1
	05/09/2016	7.58	16.2	758	7950	-58.4
	07/25/2016	7.68	18	779	7000	18.4
	11/07/2016	7.72	18.2	776	6130	40.3
	02/15/2017	7.1	13.1	813	4240	14.3
	05/08/2017	6.8	16.3	827	3900	10.2
	08/15/2017	7.19	19.3	854	5190	71.7
	11/06/2018	7.53	17.7	767	5490	30.1
	05/07/2019	7.13	14.8	809	5350	146.3
	11/05/2019	7.29	15.8	692	6020	47.2
	05/04/2020	7.5	16.4	737	4460	60.1
	11/02/2020	7.45	17.7	672	5930	250.5
	05/03/2021	7.32	15.4	697	7010	192.7
	11/01/2021	7.34	17.3	854	4790	152.5
	10/10/2023	7.01	18.7	1113	290	-56
KMW-16	05/28/2015	7.56	16.8	879	810	10.9
	11/03/2015	6.88	18.3	1147	200	26.3
	02/02/2016	6.8	14.6	935	690	258
	05/09/2016	7.26	15.8	1061	740	-82.8
	07/25/2016	7.4	17.3	1064	690	-129.8
	11/07/2016	7.54	17.7	1056	750	-119.4
	05/08/2017	6.96	15.8	1179	810	1.6
	08/15/2017	7.81	18.3	1137	730	-19.5
	11/06/2018	7.34	17.7	1021	540	-65.3
	05/07/2019	7.15	15.1	964	1260	79.4
	11/05/2019	7.43	16.7	955	970	-35.3
	05/04/2020	7.35	15.7	880	2640	107.4
	11/02/2020	7.11	17.8	1064	1750	-12
	05/03/2021	7.12	16.1	897	3060	157.4
	11/01/2021	6.96	17.7	1080	730	94.3
	10/10/2023	6.9	19.4	1653		

TABLE 3
SUMMARY OF FIELD PARAMETERS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Date	Field Parameters				
		pH, Field pH units	Temperature Deg C	Conductivity, Field uS/cm	Dissolved Oxygen, Field ug/L	Oxidation Reduction Potential (ORP), Field mv
MW-10	11/02/2015	6.98	16.5	1114	2680	108.2
	02/03/2016	7.25	11.9	1980	4250	250.1
	05/10/2016	7.58	14.7	1165	9840	85.1
	07/26/2016	7.6	18	1041	9220	87.9
	11/07/2016	7.6	17.8	1058	7240	58.8
	02/14/2017	7.29	11.9	1076	4890	-14.3
	05/09/2017	7.03	14.3	1575	5080	-29.2
	08/16/2017	7.61	18.3	1062	7980	135.7
	11/08/2018	7.44	15.3	790	22980	115.7
	05/08/2019	7.05	13.3	1039	6840	207.7
	05/05/2020	7.72	15.1	774	6720	207.1
	11/03/2020	7.5	16.9	770	7120	51.3
	05/04/2021	7.49	15.4	718	5920	108.4
	11/02/2021	7.48	17	1080	6820	121.2
MW-11	10/11/2023	7.27	17.7	1399	7130	119
	07/26/2016	7.05	18.4	2471	1350	-182.5
	11/08/2016	7.16	16.8	2339	1070	-181
	05/09/2017	7.29	15.1	2446	390	-106.5
	08/16/2017	8	17.7	2719	750	-108.8
MW-13	10/11/2023	6.76	16.5	2068	2200	-80.2
	05/28/2015	7.06	21	906	1280	58
	08/16/2017	7.85	18.4	980	960	-74
	11/07/2018	6.85	15.6	765	2500	-52.6
	05/08/2019	6.67	17.2	948	450	0.2
	11/06/2019	6.79	11.6	8840	470	7.9
	05/05/2020	6.81	17.3	805	900	-33.6
	05/04/2021	6.56	14.1	776	500	102.1
	10/11/2023	6.7	15.8	843	250	-53.6
	MWG-1	05/28/2015	7.45	17.1	843	4710
MWG-2						24.1
	02/03/2016	7.29	13.6	774	3450	279.3
	05/09/2016	7.55	16.5	768	7040	-48.3
	07/26/2016	7.62	19.3	775	7580	42.2
	11/07/2016	7.7	19.4	778	6230	35.6
	02/14/2017	7.26	11.5	800	4500	-5.4
	05/09/2017	7.11	13.9	807	5230	-0.7
	08/14/2017	7.4	20.4	857	5510	154.6
	11/06/2018	7.57	19.2	755	5340	48.2
	05/07/2019	7.39	15.7	822	4440	48.8
	11/05/2019	7.46	17.6	803	5490	88.1
	05/05/2020	7.61	15.5	776	4660	187.4
	11/03/2020	7.32	18.4	808	4590	124.1
	05/04/2021	7.46	14.3	796	5830	57.1
MWG-3	11/02/2021	7.33	17	831	2560	138.4
	10/10/2023	7.37	19.7	818	5810	383.2
	05/28/2015	8.16	16.9	872	80	-156
	08/14/2017	8.02	18.7	1210	490	-133.8
	11/05/2019	7.38	15.5	843	820	-83.1
S-1	05/05/2020	7.11	15.3	1141	200	-94.6
	11/02/2021	7.05	15.1	1039	1090	140.5
	10/10/2023	6.92	17.3	1189	250	-85.3
	05/28/2015	8.09	17.7	822	2480	-7.7
	10/10/2023	7.38	17.3	818	3430	4.87
S-2	05/27/2015	7.4	16.7	1145	280	-86.4
	11/07/2016	7.28	16.9	1527	1010	-165.5
	02/14/2017	7.64	12.2	1534	400	-88
	05/08/2017	7.35	14.7	1628	430	-90.5
	08/14/2017	8.01	18.2	1559	710	-115.4
	11/08/2018	7.17	15.7	1172	890	-119.3
	05/07/2019	6.98	13.6	1218	160	-32.1
	11/05/2019	7.04	16	1232	880	-137.8
	05/04/2020	7.34	14.7	1099	520	-110.2
	11/02/2020	7.01	16.3	1353	290	-115
	05/03/2021	7.01	15.4	1115	370	-109.1
	11/02/2021	6.83	14.7	1390	690	170.3
	10/10/2023	6.73	16.9	1343	250	-131
YMW-1	11/04/2015	6.87	15.8	1154	1420	-46.3
	02/02/2016	6.87	15.2	1202	330	232.6
	05/10/2016	7.33	16.7	1054	1470	-156.9
	07/27/2016	7.37	17.2	1148	1060	-176.5
	11/08/2016	7.36	17.4	1669	1060	-179.1
	02/15/2017	7.47	13.5	1566	560	-95
	05/09/2017	7.34	15.9	1763	1200	-108.3
	08/17/2017	7.99	17.8	2030	1810	-109.1
	11/07/2018	7.32	16.6	1157	350	-142.3
	05/08/2019	6.89	15.2	1132	400	-80.3
	11/05/2019	7.19	17.2	1230	880	-116.8
	05/05/2020	7.29	17.6	937	630	-115
	11/03/2020	7.18	16.4	816	1380	-102.4
YMW-2	05/04/2021	7.13	16.8	961	880	-98
	11/02/2021	7.17	16.5	1196	210	-107
	10/10/2023	6.83	17.5	1149	1120	-93.8
	11/04/2015	6.98	16.4	987	1520	48.3
	02/01/2016	6.37	15	1110	790	327.9
	05/10/2016	7.32	16.9	919	2620	-81.7
	07/27/2016	7.15	18.3	1524	1310	-185.9
	11/08/2016	7.21	19	1570	950	-179.4
	02/15/2017	7.17	13.5	1001	830	-44.6
	05/09/2017	7	16.5	1220	350	-48.4
YMW-3	08/17/2017	7.98	19.1	1230	800	-107.1
	11/07/2018	7.1	18.1	1246	830	-143
	05/08/2019	6.97	16.9	1292	200	-55.3
	11/05/2019	7.35	16.8	1173	890	-93.5
	05/05/2020	7.15	16.6	1472	290	-119.6
	11/03/2020	6.83	17.4	1656	110	-128.6
	05/04/2021	7.02	16.1	1173	500	-28.6
	11/02/2021	6.94	17.9	1417	530	134
	10/10/2023	6.8	18.7	1121	340	-38.7
	10/11/2023	6.8	18.7	1121		

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA: PETROLEUM HYDROCARBONS AND VOCs
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Sample Depth (bgs)	Total Petroleum Hydrocarbon Identification (detect/non-detect)			Total Petroleum Hydrocarbons			Petroleum Volatile Organic Compounds						
				Diesel Range Organics		Gasoline Range Organics	PHC as Lube Oil	Diesel Range Organics		Gasoline Range Organics	PHC as Lube Oil	Benzene	Toluene	Ethylbenzene	Xylene (Total)*	Naphthalene
				ug/L	NA	ug/L	ug/L	ug/L	500	ug/L	800	ug/L	500	ug/L	1000	ug/L
DSW-MILPT03	DSW-MILPT03-20181204-GW-10.0	12/04/2018	10 (ft)	-	-	-	-	-	360	-	2.9	2.6	10	3.8	-	-
	DSW-MILPT03-20181204-GW-11.0	12/04/2018	11 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
	DSW-MILPT03-20181205-GW-12-14	12/05/2018	12 - 14 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	5.8	-	-
	DSW-MILPT03-20181205-GW-15-17	12/05/2018	15 - 17 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
DSW-MILPT05	DSW-MILPT05-20181205-GW-9-11	12/05/2018	9 - 11 (ft)	-	-	-	-	-	1800	-	5.5	4.5	89	34	-	-
	DSW-MILPT05-20181205-GW-12-14	12/05/2018	12 - 14 (ft)	-	-	-	-	-	760	-	25	1.6	29	3 U	-	-
	DSW-MILPT05-20181205-GW-16-18	12/05/2018	16 - 18 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
DSW-MILPT10	DSW-MILPT10-20181205-GW-10-12	12/05/2018	10 - 12 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
	DSW-MILPT10-20181205-GW-13-15	12/05/2018	13 - 15 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
	DSW-MILPT10-20181205-GW-16-18	12/05/2018	16 - 18 (ft)	-	-	-	-	-	100 U	-	1 U	1 U	1 U	3 U	-	-
KMW-5	KMW-5-20150527-GW	05/27/2015	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW5-20160202-GW	02/02/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20160509-GW	05/09/2016	-	-	-	-	-	-	100 U	-	1 U	2	1 U	1 U	-	-
	KMW-5-20160725-GW	07/25/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20170214-GW	02/14/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20170508-GW	05/08/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20170816-GW	08/16/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20181106-GW	11/06/2018	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-5-20190507-GW	05/07/2019	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW5-20191104-GW	11/04/2019	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.5 U	-
	KMW-5-20200504-GW	05/04/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW-5-20201102-GW	11/02/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	-	-
	KMW5-20210503-GW	05/03/2021	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW-5-20211102-GW	11/02/2021	14 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW5-W-13-20231010	10/10/2023	13 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	2 U	-
KMW-6	KMW-6-20150528-GW	05/28/2015	-	-	-	-	-	-	100 U	-	47	1 U	1.6	1 U	-	-
	KMW-6-20151103-GW	11/03/2015	-	-	-	-	-	-	410	-	15	7.4	18	35.6	-	-
	KMW-6-20160201-GW	02/01/2016	-	-	-	-	-	-	400 U	-	42	4 U	22	5.4	-	-
	KMW-6-20160509-GW	05/09/2016	-	-	-	-	-	-	270	-	69	3	33	3.2	-	-
	KMW-6-20160725-GW	07/25/2016	-	-	-	-	-	-	480	-	31	2	32	13.5	-	-
	KMW-6-20161108-GW	11/08/2016	-	-	-	-	-	-	470	-	13	1 U	48	9.4	-	-
	KMW-6-20170215-GW	02/15/2017	-	-	-	-	-	-	250	-	46	1 U	11	2.7	-	-
	KMW-6-20170508-GW	05/08/2017	-	-	-	-	-	-	830	-	170	1.8	38	15.9	-	-
	KMW-6-20170815-GW	08/15/2017	-	-	-	-	-	-	760	-	36	4 U	23	10.5	-	-
	KMW-6-20181106-GW	11/06/2018	-	-	-	-	-	-	430	-	5.5	1 U	13	4.2	-	-
	KMW-6-20190507-GW	05/07/2019	-	-	-	-	-	-	140	-	49	1 U	8.4	1 U	-	-
	KMW6-20191104-GW	11/04/2019	-	-	-	-	-	-	690	-	100	5 U	24	7	7.5 U	-
	KMW-6-20200504-GW	05/04/2020	-	-	-	-	-	-	100 U	-	10	1 U	0.39	0.4 U	1 U	-
	KMW-6-20201103-GW	11/03/2020	-	-	-	-	-	-	380	-	72	3.4	29	14.2	-	-
	KMW-6-20210503-GW	05/03/2021	-	-	-	-	-	-	100 U	-	5.1	1 U	0.21	0.4 U	1 U	-
	KMW-6-20211101-GW	11/01/2021	14 (ft)	-	-	-	-	-	300	-	31	1 U	25	5.73	4 Y	-
	KMW6-W-14-20231010	10/10/2023	14 (ft)	-	-	-	-	-	780	-	69	4 U	80	14.7	24	-
KMW-7	KMW-7-20150529-GW	05/29/2015	-	-	-	-	-	-	620	-	8.4	2	14	88	-	-
	KMW-7-20151102-GW	11/02/2015	-	-	-	-	-	-	350	-	13	1 U	21	5.1	-	-
	KMW7-20160203-GW	02/03/2016	-	-	-	-	-	-	610	-	47	1 U	41	2.1	-	-
	KMW-7-20160510-GW	05/10/2016	-	-	-	-	-	-	250	-	25	2.3	21	1 U	-	-
	KMW-7-20160726-GW	07/26/2016	-	-	-	-	-	-	100 U	-	3.1	1 U	1.5	1 U	-	-
	KMW-7-20161109-GW	11/09/20														

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA: PETROLEUM HYDROCARBONS AND VOCs
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Sample Depth (bgs)	Total Petroleum Hydrocarbon Identification (detect/non-detect)			Total Petroleum Hydrocarbons			Petroleum Volatile Organic Compounds						
				Diesel Range Organics		PHC as Lube Oil	Diesel Range Organics		Gasoline Range Organics	PHC as Lube Oil	Benzene	Toluene	Ethylbenzene	Xylene (Total)*	Naphthalene	
				ug/L	NA	ug/L	ug/L	500	ug/L	800	ug/L	500	ug/L	1000	ug/L	160
KMW-14	KMW-14-20150528-GW	05/28/2015	-	-	-	-	-	-	100 U	-	1.9	1 U	1 U	1 U	-	-
	KMW-14-20151103-GW	11/03/2015	-	-	-	-	-	-	100 U	-	5.5	1 U	1 U	1 U	-	-
	KMW-14-20160202-GW	02/02/2016	-	-	-	-	-	-	100 U	-	3	1 U	1 U	1 U	-	-
	KMW-14-20160509-GW	05/09/2016	-	-	-	-	-	-	100 U	-	1 U	1.9	1 U	1 U	-	-
	KMW-14-20160725-GW	07/25/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-14-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-14-20170215-GW	02/15/2017	-	-	-	-	-	-	100 U	-	1.2	1 U	1 U	1 U	-	-
	KMW-14-20170508-GW	05/08/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-14-20170815-GW	08/15/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-14-20181106-GW	11/06/2018	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-14-20190507-GW	05/07/2019	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
KMW-14	KMW14-W-15-20231010	10/10/2023	15 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	2 U	-
	KMW14-20191105-GW	11/05/2019	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.5 U	-
	KMW14-20200504-GW	05/04/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW14-20201102-GW	11/02/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	-	-
	KMW14-20210503-GW	05/03/2021	-	-	-	-	-	-	100 U	-	0.22	1 U	0.35	0.4 U	1 U	-
	KMW14-20211101-GW	11/01/2021	16 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.4 U	-
KMW-15	KMW15-W-15-20231010	10/10/2023	15 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	2 U	-
	KMW-15-20151103-GW	11/03/2015	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20160202-GW	02/02/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20160509-GW	05/09/2016	-	-	-	-	-	-	100 U	-	1 U	1.1	1 U	1 U	-	-
	KMW-15-20160725-GW	07/25/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20170215-GW	02/15/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20170508-GW	05/08/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20170815-GW	08/15/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20181106-GW	11/06/2018	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20190507-GW	05/07/2019	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-15-20191105-GW	11/05/2019	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.5 U	-
	KMW-15-20200504-GW	05/04/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW-15-20201102-GW	11/02/2020	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	-	-
	KMW-15-20210503-GW	05/03/2021	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1 U	-
	KMW-15-20211101-GW	11/01/2021	15 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.4 U	-
	KMW15-W-15-20231010	10/10/2023	15 (ft)	-	-	-	-	-	100 U	-	0.3	1 U	0.2 U	0.4 U	2 U	-
KMW-16	KMW-16-20150528-GW	05/28/2015	-	-	-	-	-	-	280	-	60	1 U	9.6	4.6	-	-
	KMW-16-20151103-GW	11/03/2015	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20160202-GW	02/02/2016	-	-	-	-	-	-	200	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20160509-GW	05/09/2016	-	-	-	-	-	-	200	-	7.6	1 U	1 U	1 U	-	-
	KMW-16-20160725-GW	07/25/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20170508-GW	05/08/2017	-	-	-	-	-	-	160	-	2.9	1 U	1 U	1 U	-	-
	KMW-16-20170815-GW	08/15/2017	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20181106-GW	11/06/2018	-	-	-	-	-	-	100 U	-	1 U	1 U	1 U	1 U	-	-
	KMW-16-20190507-GW	05/07/2019	-	-	-	-	-	-	150	-	2.6	1 U	1 U	1 U	-	-
	KMW-16-20191105-GW	11/05/2019	-	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.5 U	-
	KMW-16-20200504-GW	05/04/2020	-	-	-	-	-	-	140	-	29	1 U	4	2.1	3.4	-
	KMW-16-20201102-GW	11/02/2020	-	-	-	-	-	-	130	-	0.62	1 U	0.2 U	0.4 U	-	-
	KMW16-20210503-GW	05/03/2021	-	-	-	-	-	-	100 U	-	33	1 U	0.88	0.51	1 U	-
	KMW-16-20211101-GW	11/01/2021	15 (ft)	-	-	-	-	-	100 U	-	0.2 U	1 U	0.2 U	0.4 U	1.4 U	-
	KMW16-W-11-202															

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA: PETROLEUM HYDROCARBONS AND VOCs
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Sample Depth (bgs)	Total Petroleum Hydrocarbon Identification (detect/non-detect)			Total Petroleum Hydrocarbons			Petroleum Volatile Organic Compounds						
				Diesel Range Organics		Gasoline Range Organics	PHC as Lube Oil	Diesel Range Organics		Gasoline Range Organics	PHC as Lube Oil	Benzene	Toluene	Ethylbenzene	Xylene (Total)*	Naphthalene
				ug/L	NA	ug/L	ug/L	ug/L	500	ug/L	800	ug/L	500	ug/L	1000	ug/L
MW-10	MW-10-20151102-GW	11/02/2015	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW10-20160203-GW	02/03/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20160510-GW	05/10/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20160726-GW	07/26/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20170214-GW	02/14/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20170509-GW	05/09/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20170816-GW	08/16/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20181108-GW	11/08/2018	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20190508-GW	05/08/2019	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MW-10-20200505-GW	05/05/2020	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1 U
	MW-10-20201103-GW	11/03/2020	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	-
	MW10-20210504-GW	05/04/2021	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1 U
	MW-10-20211102-GW	11/02/2021	13.5 (ft)	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	2 U
	MW10-W-15-20231011	10/11/2023	15 (ft)	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	2 U
MW-11	MW-11-20160726-GW	07/26/2016	-	-	-	-	-	-	67000	-	-	110	150	1400	15900	-
	MW-11-20161108-GW	11/08/2016	-	-	-	-	-	-	52000	-	-	93	110	1800	12490	-
	MW-11-20170509-GW	05/09/2017	-	-	-	-	-	-	54000	-	-	57	50 U	1900	11100	-
	MW-11-20170816-GW	08/16/2017	-	-	-	-	-	-	90000	-	-	100 U	100 U	1500	8500	-
	MW11-W-13-20231011	10/11/2023	13 (ft)	-	-	-	-	-	54000	-	-	20 U	100 U	2600	9679	1500
MW-13	MW-13-20150528-GW	05/28/2015	-	-	-	-	-	-	92000	-	-	32	510	1500	12500	-
	MW-13-20170816-GW	08/16/2017	-	-	-	-	-	-	19000	-	-	6.5	23	340	870	-
	MW-13-20181107-GW	11/07/2018	-	-	-	-	-	-	4300	-	-	1 U	2.2	69	100	-
	MW-13-20190508-GW	05/08/2019	-	-	-	-	-	-	2800 O	-	-	1 U	1.1	18	21.7	-
	MW13-20191106-GW	11/06/2019	-	-	-	-	-	-	3700	-	-	4 U	4 U	62	98	-
	MW-13-20200505-GW	05/05/2020	-	-	-	-	-	-	3300	-	-	1 U	5 U	9	66	-
	MW13-20210504-GW	05/04/2021	-	-	-	-	-	-	1800 O	-	-	0.32	1 U	2.4	2.49	5.6
MWG-1	MWG-1-20150528-GW	05/28/2015	-	-	-	-	-	-	8000	-	-	0.8 U	4 U	110	78	65
	MWG2-20160203-GW	02/03/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
MWG-2	MWG-2-20160509-GW	05/09/2016	-	-	-	-	-	-	100 U	-	-	1 U	2.1	1 U	1 U	-
	MWG-2-20160726-GW	07/26/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20161107-GW	11/07/2016	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20170214-GW	02/14/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20170509-GW	05/09/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20170814-GW	08/14/2017	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20181106-GW	11/06/2018	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG-2-20190507-GW	05/07/2019	-	-	-	-	-	-	100 U	-	-	1 U	1 U	1 U	1 U	-
	MWG2-20191105-GW	11/05/2019	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1.5 U
	MWG-2-20200505-GW	05/05/2020	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1.6 Y
	MWG-2-20201103-GW	11/03/2020	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	-
	MWG2-20210504-GW	05/04/2021	-	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1 U
	MWG-2-20211102-GW	11/02/2021	12 (ft)	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	1 U
	MWG2-W-10-20231010	10/10/2023	10 (ft)	-	-	-	-	-	100 U	-	-	0.2 U	1 U	0.2 U	0.4 U	2 U
MWG-3	MWG-3-20150528-GW	05/28/2015	-	-	-	-	-	-	64000	-	-	3300	710	2700	8000	-
	MWG3-20170814-GW	08/14/2017	-	-	-	-	-	-	27000	-	-	1100	50 U	1100	2570	-
	MWG3-20191105-GW	11/05/2019	-	-	-	-	-	-	20000	-	-	920	89	340	1650	420 Y
	MWG-3-20200505-GW	05/05/2020	-	-	-	-	-	-	10000	-	-	220	10 U	130	67	280 Y
	MWG-3-20211102-GW	11/02/2021	10 (ft)	-	-	-	-	-	18000	-	-	1200	180	680	2300	340
	MWG3-W-10-20231010	10/10/2023	10 (ft)	-	-	-</										

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA: PETROLEUM HYDROCARBONS AND VOCs
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Sample Depth (bgs)	Total Petroleum Hydrocarbon Identification (detect/non-detect)			Total Petroleum Hydrocarbons			Petroleum Volatile Organic Compounds				
				Diesel Range Organics	Gasoline Range Organics	PHC as Lube Oil	Diesel Range Organics	Gasoline Range Organics	PHC as Lube Oil	Benzene	Toluene	Ethylbenzene	Xylene (Total)*	Naphthalene
				ug/L NA	ug/L NA	ug/L NA	ug/L 500	ug/L 800	ug/L 500	ug/L 5	ug/L 1000	ug/L 700	ug/L 1000	ug/L 160
YMW-1	YMW-1-20151104-GW	11/04/2015	-	-	-	-	-	11000	-	990	1400	470	1430	-
	YMW1-20160202-GW	02/02/2016	-	-	-	-	-	29000	-	2200	3900	840	3350	-
	YMW-1-20160510-GW	05/10/2016	-	-	-	-	-	21000	-	1600	2500	750	2750	-
	YMW-1-20160727-GW	07/27/2016	-	-	-	-	-	24000	-	2400	3200	930	3800	-
	YMW-1-20161108-GW	11/08/2016	-	-	-	-	-	30000	-	3300	3400	1100	4400	-
	YMW-1-20170215-GW	02/15/2017	-	-	-	-	-	31000	-	3200	2900	1500	5100	-
	YMW-1-20170509-GW	05/09/2017	-	-	-	-	-	42000	-	4400	2100	1500	5700	-
	YMW-1-20170817-GW	08/17/2017	-	-	-	-	-	64000	-	4500	4100	2100	8000	-
	YMW-1-20181107-GW	11/07/2018	-	-	-	-	-	11000	-	920	140	670	1610	-
	YMW-1-20190508-GW	05/08/2019	-	-	-	-	-	9600	-	630	44	490	938	-
	YMW-1-DUP-20190508-GW	05/08/2019	-	-	-	-	-	9400	-	610	45	480	929	-
	YMW1-20191105-GW	11/05/2019	-	-	-	-	-	15000	-	880	61	720	1480	250 Y
	YMWDUP-20191105-GW	11/05/2019	-	-	-	-	-	12000	-	1000	71	800	1697	280 Y
	YMW-1-20200505-GW	05/05/2020	-	-	-	-	-	10000	-	750	50 U	800	1222	520 Y
	YMW-1-20201103-GW	11/03/2020	-	-	-	-	-	8600	-	1200	69	860	1323	490
	YMW1-20210504-GW	05/04/2021	-	-	-	-	-	7000	-	680	58	580	987	300
	YMW-1-20211102-GW	11/02/2021	15 (ft)	-	-	-	-	12000	-	870	130	950	1846	410
	YMW1-W-15-20231010	10/10/2023	15 (ft)	-	-	-	-	9200	-	880	40 U	1200	1121	470
YMW-2	YMW-2-20151104-GW	11/04/2015	-	-	-	-	-	3700	-	72	130	150	770	-
	YMW-2-DUP-20151104-GW	11/04/2015	-	-	-	-	-	4100	-	76	140	160	840	-
	YMW2-20160201-GW	02/01/2016	-	-	-	-	-	13000	-	380	630	300	2510	-
	YMW2-DUP-20160201-GW	02/01/2016	-	-	-	-	-	13000	-	380	650	310	2630	-
	YMW-2-20160510-GW	05/10/2016	-	-	-	-	-	6600	-	240	570	180	1070	-
	YMW-2-DUP-20160510-GW	05/10/2016	-	-	-	-	-	8500	-	240	590	190	1110	-
	YMW-2-20160727-GW	07/27/2016	-	-	-	-	-	52000	-	1200	2800	1500	8000	-
	YMW-2-DUP-20160727-GW	07/27/2016	-	-	-	-	-	53000	-	1200	2800	1500	8200	-
	YMW-2-20161108-GW	11/08/2016	-	-	-	-	-	23000	-	180	230	1000	3210	-
	YMW-2-DUP-20161108-GW	11/08/2016	-	-	-	-	-	21000	-	190	230	1000	3220	-
	YMW-2-20170215-GW	02/15/2017	-	-	-	-	-	9200	-	300	360	440	1380	-
	YMW-2-DUP-20170215-GW	02/15/2017	-	-	-	-	-	11000	-	340	420	500	1530	-
	YMW-2-20170509-GW	05/09/2017	-	-	-	-	-	6700	-	380	150	330	810	-
	YMW-2-DUP-20170509-GW	05/09/2017	-	-	-	-	-	6600	-	370	140	320	790	-
	YMW-2-20170817-GW	08/17/2017	-	-	-	-	-	17000	-	69	14	650	740	-
	YMW-2-DUP-20170817-GW	08/17/2017	-	-	-	-	-	17000	-	67	13	630	730	-
	YMW-2-20181107-GW	11/07/2018	-	-	-	-	-	9300	-	39	8.8	380	189	-
	YMW-2-20190508-GW	05/08/2019	-	-	-	-	-	15000	-	410	110	810	2200	-
	YMW2-20191105-GW	11/05/2019	-	-	-	-	-	8300	-	41	10 U	340	110	-
	YMW-2-20200505-GW	05/05/2020	-	-	-	-	-	11000	-	360	50 U	1400	1323	460 Y
	YMW-2-DUP-20200505-GW	05/05/2020	-	-	-	-	-	11000	-	370	50 U	1400	1323	500 Y
	YMW-2-20201103-GW	11/03/2020	-	-	-	-	-	12000	-	320	55	1000	1385	350
	YMW-2-DUP-20201103-GW	11/03/2020	-	-	-	-	-	13000	-	320	54	990	1388	340
	YMW2-20210504-GW	05/04/2021	-	-	-	-	-	6300	-	180	20 U	810	531	190
	YMW2-DUP-20210504-GW	05/04/2021	-	-	-	-	-	6900	-	190	20 U	860	586	200
	YMW-2-20211102-GW	11/02/2021	16 (ft)	-	-	-	-	4000	-	30	10 U	470	23.4	130
	YMW-2-DUP-20211102-GW	11/02/2021	16 (ft)	-	-	-	-	4100	-	30	10 U	470	24.3	130
	YMW2-W-15-20231010	10/10/2023	15 (ft)	-	-	-	-	1100 J	-	35	6.2	200	135.8	46
	YMW-DUP-W-DEPTH-20231011	10/11/2023	-	-	-	-	-	1800 J	-	41	10 U	250	187.5	58
YMW-3	YMW3-20160201-GW	02/01/2016	-	-	-	-	-	31000	-	3100	1800	1200	5700	-
	YMW-3-20160510-GW	05/10/2016	-	-	-	-	-	23000	-	2000	1100	980	3210	-
	YMW-3-20160726-GW	07/26/2016	-	-	-	-	-	33000	-	2000	2100	1400	5100	-
	YMW-3-20161109-GW	11/09/2016	-	-	-	-	-	48000	-	2800	4500	2200	9000	-
	YMW-3-20170215-GW	02/15/2017	-	-	-</									

TABLE 4
SUMMARY OF GROUNDWATER QUALITY DATA: PETROLEUM HYDROCARBONS AND VOCs
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

ABBREVIATIONS AND NOTES:

*Total xylenes is the sum of m,p-xylene and o-xylene. Non-detect results are summed at one-half the detection limit. When both results are non-detect, the higher detection limit is used.

-: Not Analyzed

bgs: below ground surface

ft: feet

J: Value is estimated.

MTCA: Model Toxics Control Act

NA: Not Available

ND: Not Detected

U: not detected, value is the laboratory reporting limit

ug/L: microgram per liter

Y: result is an estimate

¹: intermittent globules of gasoline-range TPH were observed during the groundwater purging/monitoring activities. Therefore, a groundwater sample was not collected.

Bold values indicate a detected concentration.

Blue shading indicates a detected analyte concentration exceeding a MTCA Method A Cleanup Level.

TABLE 5
SUMMARY OF GEOCHEMICAL RESULTS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Dissolved Oxygen, Field (a) mg/L	Oxidation Reduction Potential (ORP), mv	Ferrous Iron, Field (b) mg/L	Manganese, Total mg/L	Methane, Total mg/L	Nitrate (as N), Total mg/L	Sulfate mg/L
DSW-MILPT03	DSW-MILPT03-20181204-GW-10.0	12/04/2018	-	-	-	2.91	0.031	-	14.9 D
	DSW-MILPT03-20181204-GW-11.0	12/04/2018	-	-	-	0.834	0.005 U	-	28.4 D
	DSW-MILPT03-20181205-GW-12-14	12/05/2018	-	-	-	0.278	0.005 U	-	32.6 D
	DSW-MILPT03-20181205-GW-15-17	12/05/2018	-	-	-	0.22	0.005 U	-	31.9 D
DSW-MILPT05	DSW-MILPT05-20181205-GW-9-11	12/05/2018	-	-	-	1.21	0.14	-	16.7 D
	DSW-MILPT05-20181205-GW-12-14	12/05/2018	-	-	-	2.31	0.24	-	15.6 D
	DSW-MILPT05-20181205-GW-16-18	12/05/2018	-	-	-	0.349	0.005 U	-	25.7 D
DSW-MILPT10	DSW-MILPT10-20181205-GW-10-12	12/05/2018	-	-	-	1.64	0.02	-	36.4 D
	DSW-MILPT10-20181205-GW-13-15	12/05/2018	-	-	-	0.0651	0.0081	-	30.4 D
	DSW-MILPT10-20181205-GW-16-18	12/05/2018	-	-	-	0.023	0.005 U	-	31 D
KMW-5	KMW-5-20150527-GW	05/27/2015	0.34	28.6	-	-	-	-	-
	KMW5-20160202-GW	02/02/2016	1.49	256.6	-	-	-	-	-
	KMW-5-20160509-GW	05/09/2016	2.28	-74	-	-	-	-	-
	KMW-5-20160725-GW	07/25/2016	1.32	9.4	-	-	-	-	-
	KMW-5-20161107-GW	11/07/2016	2.08	-2.1	-	-	-	-	-
	KMW-5-20170214-GW	02/14/2017	2.6	-15	-	-	-	-	-
	KMW-5-20170508-GW	05/08/2017	2.54	-0.9	-	-	-	-	-
	KMW-5-20170816-GW	08/16/2017	0.95	149.8	-	-	-	-	-
	KMW-5-20181106-GW	11/06/2018	3.75	37.6	0	1.1	0.001 U	3.2	26
	KMW-5-20190507-GW	05/07/2019	0.96	185.4	0	2	0.017	1.3	30
	KMW5-20191104-GW	11/04/2019	3.79	61.5	0	0.68	0.0021	2.9	26
	KMW-5-20200504-GW	05/04/2020	0.3	69.8	0	5.5	0.026	1.1	31
	KMW-5-20201102-GW	11/02/2020	0.98	222.1	0	1.3	0.0077	2.5	28
	KMW5-20210503-GW	05/03/2021	0.65	155.3	0	5.3	0.0026	0.9	48
	KMW-5-20211102-GW	11/02/2021	1.78	114.8	0	1.3	0.0045	2.3	27
	KMW5-W-13-20231010	10/10/2023	0.54	94	0	13	0.0017	2.8	27
KMW-6	KMW-6-20150528-GW	05/28/2015	1.78	-30.3	-	-	-	-	-
	KMW6-20151103-GW	11/03/2015	1.69	74.2	-	-	-	-	-
	KMW-6-20160201-GW	02/01/2016	2.3	293.9	-	-	-	-	-
	KMW-6-20160509-GW	05/09/2016	4.27	-104	-	-	-	-	-
	KMW-6-20160725-GW	07/25/2016	2.29	-85.9	-	-	-	-	-
	KMW-6-20161108-GW	11/08/2016	1.61	120.6	-	-	-	-	-
	KMW-6-20170215-GW	02/15/2017	0.94	-20.9	-	-	-	-	-
	KMW-6-20170508-GW	05/08/2017	1.66	-49	-	-	-	-	-
	KMW-6-20170815-GW	08/15/2017	1.36	-66.1	-	-	-	-	-
	KMW-6-20181106-GW	11/06/2018	2.11	-43.4	0.25	1.3	0.23	2.2	19
	KMW-6-20190507-GW	05/07/2019	2.99	84.6	0	0.87	0.15	3.1	29
	KMW6-20191104-GW	11/04/2019	2.7	15.4	0	1.3	0.33	2.3	21
	KMW-6-20200504-GW	05/04/2020	4.09	53.8	0	0.63	0.028	3.6	31
	KMW-6-20201103-GW	11/03/2020	3.9	50.4	0	0.73	0.21	2.8	23
	KMW-6-20210503-GW	05/03/2021	3.73	148	0	0.66	0.0057	3.4	27
	KMW-6-20211101-GW	11/01/2021	2.48	10.3	0.25	1.2	0.21	2.4	21
	KMW6-W-14-20231010	10/10/2023	0.95	-82	0.5	1.9	0.81	2	16
KMW-7	KMW-7-20150529-GW	05/29/2015	7.44	123.6	-	-	-	-	-
	KMW-7-20151102-GW	11/02/2015	2.92	6.3	-	-	-	-	-
	KMW7-20160203-GW	02/03/2016	3.39	187	-	-	-	-	-
	KMW-7-20160510-GW	05/10/2016	7.98	-50.6	-	-	-	-	-
	KMW-7-20160726-GW	07/26/2016	9.43	29.9	-	-	-	-	-
	KMW-7-20161109-GW	11/09/2016	7.93	57.3	-	-	-	-	-
	KMW-7-20170214-GW	02/14/2017	5.4	-20.3	-	-	-	-	-
	KMW-7-20170509-GW	05/09/2017	2.94	-35.4	-	-	-	-	-
	KMW-7-20170816-GW	08/16/2017	7.87	122.3	-	-	-	-	-
	KMW-7-20181108-GW	11/08/2018	7.94	70	0	0.021	0.019	4.1	21
	KMW-7-20190508-GW	05/08/2019	5.72	113.5	0	0.032	0.086	4.3	22
	KMW-7-20200505-GW	05/05/2020	8.6	49.9	0	0.011 U	0.0013	4.3	30
	KMW-7-20201103-GW	11/03/2020	5.28	25.2	0	0.033	0.063	3.7	26
	KMW7-20210504-GW	05/04/2021	6.09	78.2	0	0.011 U	0.00055 U	4.1	28
	KMW-7-20211102-GW	11/02/2021	3.73	122.6	0	0.012	0.019	3.9	26
	KMW7-W-15-20231011	10/11/2023	7.43	125	0	0.01 U	0.0025	4.3	30
KMW-8	KMW-8-20150529-GW	05/29/2015	7.35	114.2	-	-	-	-	-
KMW-10	KMW-10-20150529-GW	05/29/2015	5.24	132.6	-	-	-	-	-
KMW-14	KMW-14-20150528-GW	05/28/2015	0.14	-33.5	-	-	-	-	-
	KMW14-20151103-GW	11/03/2015	0.22	-12.3	-	-	-	-	-
	KMW14-20160202-GW	02/02/2016	0.38	287.7	-	-	-	-	-
	KMW14-20160509-GW	05/09/2016	0.23	-102.8	-	-	-	-	-
	KMW14-20160725-GW	07/25/2016	1.41	61.1	-	-	-	-	-
	KMW14-20161107-GW	11/07/2016	1.12	-39.8	-	-	-	-	-
	KMW14-20170215-GW	02/15/2017	0.43	-36.4	-	-	-	-	-
	KMW14-20170508-GW	05/08/2017	1.47	-6.5	-	-	-	-	-
	KMW14-20170815-GW	08/15/2017	0.94	37.3	-	-	-	-	-
	KMW14-20181106-GW	11/06/2018	0.73	-25.9	0.75	2.6	0.066	0.5	26
	KMW14-20190507-GW	05/07/2019	0.21	-37.2	2	2.8	0.025	0.1	33
	KMW14-20191105-GW	11/05/2019	0.89	-27.2	1.5	2.5	0.043	0.33	23

TABLE 5
SUMMARY OF GEOCHEMICAL RESULTS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Dissolved Oxygen, Field (a) mg/L	Oxidation Reduction Potential (ORP), mv	Ferrous Iron, Field (b) mg/L	Manganese, Total mg/L	Methane, Total mg/L	Nitrate (as N), Total mg/L	Sulfate mg/L
MW-9	MW-9-20150528-GW	05/28/2015	1.57	-28.5	-	-	-	-	-
	MW-9-20151103-GW	11/03/2015	0.61	-40.2	-	-	-	-	-
	MW9-20160202-GW	02/02/2016	0.5	244.2	-	-	-	-	-
	MW-9-20160510-GW	05/10/2016	0.4	-130.1	-	-	-	-	-
	MW-9-20160726-GW	07/26/2016	1.17	-140.7	-	-	-	-	-
	MW-9-20161108-GW	11/08/2016	1.05	-128.5	-	-	-	-	-
	MW-9-20170215-GW	02/15/2017	0.8	-34.8	2	3.8	-	0.05 U	5 U
	MW-9-20170509-GW	05/09/2017	1.18	-41.7	-	-	-	-	-
	MW-9-20170816-GW	08/16/2017	2.28	-73.2	2.25	3.6	-	0.05 U	5 U
	MW-9-20181107-GW	11/07/2018	1.48	-82.3	3.5	4.4	1.4	0.081	5 U
	MW-9-20190508-GW	05/08/2019	1.62	29.4	2	3.7	0.76	0.05 U	5 U
	MW9-20191106-GW	11/06/2019	1.68	-44.8	2	4.9	1.8	0.051	5 U
	MW-9-20231010	10/10/2023	0.24	-54.5	-	-	-	-	-
MW-10	MW-10-20151102-GW	11/02/2015	2.68	108.2	-	-	-	-	-
	MW10-20160203-GW	02/03/2016	4.25	250.1	-	-	-	-	-
	MW-10-20160510-GW	05/10/2016	9.84	85.1	-	-	-	-	-
	MW-10-20160726-GW	07/26/2016	9.22	87.9	-	-	-	-	-
	MW-10-20161107-GW	11/07/2016	7.24	58.8	-	-	-	-	-
	MW-10-20170214-GW	02/14/2017	4.89	-14.3	-	-	-	-	-
	MW-10-20170509-GW	05/09/2017	5.08	-29.2	-	-	-	-	-
	MW-10-20170816-GW	08/16/2017	7.98	135.7	-	-	-	-	-
	MW-10-20181108-GW	11/08/2018	22.98	115.7	0	0.019	0.001 U	5.7	24
	MW-10-20190508-GW	05/08/2019	6.84	207.7	0	0.011 U	0.001 U	6	24
	MW-10-20200505-GW	05/05/2020	6.72	207.1	0	0.011 U	0.00055 U	4.3	28
	MW-10-20201103-GW	11/03/2020	7.12	51.3	0	0.04	0.0019	12	29
	MW10-20210504-GW	05/04/2021	5.92	108.4	0	0.011 U	0.00055 U	4.8	28
	MW-10-20211102-GW	11/02/2021	6.82	121.2	0	0.011 U	0.00055 U	5.7	28
	MW10-W-15-20231011	10/11/2023	7.13	119	0	0.043	0.00055 U	5.4	31
MW-11	MW-11-20160726-GW	07/26/2016	1.35	-182.5	-	-	-	-	-
	MW-11-20161108-GW	11/08/2016	1.07	-181	-	-	-	-	-
	MW-11-20170509-GW	05/09/2017	0.39	-106.5	-	-	-	-	-
	MW-11-20170816-GW	08/16/2017	0.75	-108.8	-	-	-	-	-
	MW11-W-13-20231011	10/11/2023	2.2	-80.2	9.8	4.3	0.22	1.3	99
MW-13	MW13-20150528-GW	05/28/2015	1.28	58	-	-	-	-	-
	MW-13-20170816-GW	08/16/2017	0.96	-74	-	-	-	-	-
	MW-13-20181107-GW	11/07/2018	2.5	-52.6	1.5	1.2	0.13	2	18
	MW-13-20190508-GW	05/08/2019	0.45	0.2	1	0.88	0.22	0.47	14
	MW13-20191106-GW	11/06/2019	0.47	7.9	1.25	1.2	0.48	3.3	16
	MW-13-20200505-GW	05/05/2020	0.9	-33.6	1	0.54	0.13	0.45	19
	MW13-20210504-GW	05/04/2021	0.5	102.1	1.25	0.67	0.064	0.18	16
MWG-1	MWG-1-20150528-GW	05/28/2015	4.71	24.1	-	-	-	-	-
	MWG2-20160203-GW	02/03/2016	3.45	279.3	-	-	-	-	-
MWG-2	MWG-2-20160509-GW	05/09/2016	7.04	-48.3	-	-	-	-	-
	MWG-2-20160726-GW	07/26/2016	7.58	42.2	-	-	-	-	-
	MWG-2-20161107-GW	11/07/2016	6.23	35.6	-	-	-	-	-
	MWG-2-20170214-GW	02/14/2017	4.5	-5.4	-	-	-	-	-
	MWG-2-20170509-GW	05/09/2017	5.23	-0.7	-	-	-	-	-
	MWG-2-20170814-GW	08/14/2017	5.51	154.6	-	-	-	-	-
	MWG-2-20181106-GW	11/06/2018	5.34	48.2	-	0.032	0.0021	4.7	30
	MWG-2-20190507-GW	05/07/2019	4.44	48.8	0	0.011 U	0.0034	5.3	30
	MWG2-20191105-GW	11/05/2019	5.49	88.1	0	0.024	0.00086	5.2	30
	MWG-2-20200505-GW	05/05/2020	4.66	187.4	0	0.042	0.00055 U	4.8	29
	MWG-2-20201103-GW	11/03/2020	4.59	124.1	0	0.028	0.00095	4.5	30
	MWG2-20210504-GW	05/04/2021	5.83	57.1	0	0.011 U	0.00055 U	4.4	28
	MWG-2-20211102-GW	11/02/2021	2.56	138.4	0	0.041	0.00094	4	28
	MWG2-W-10-20231010	10/10/2023	5.81	383.2	0	0.043	0.00055 U	4.3	29
MWG-3	MWG-3-20150528-GW	05/28/2015	0.08	-156	-	-	-	-	-
	MWG-3-20170814-GW	08/14/2017	0.49	-133.8	-	-	-	-	-
	MWG3-20191105-GW	11/05/2019	0.82	-83.1	2.25	0.76	1.1	0.89	25
	MWG-3-20200505-GW	05/05/2020	0.2	-94.6	2	1	1.3	1.1	7.7
	MWG-3-20211102-GW	11/02/2021	1.09	140.5	0.75	0.82	2.3	1.1	9.5
	MWG3-W-10-20231010	10/10/2023	0.25	-85.3	4.7	0.95	3.6	0.13	5 U
OS-LLMIP05	DSW-OS-LLMIP05-20210513-GW-22.0	05/13/2021	-	-	2.7	0.00061	-	-	25
OS-LLMIP07	DSW-OS-LLMIP07-20210513-GW-21.0	05/13/2021	-	-	5.9	0.00063	-	-	25
S-1	S-1-20150528-GW	05/28/2015	2.48	-7.7	-	-	-	-	-
	S1-MI-W-12-20231010	10/10/2023	3.43	4.87	-	-	-	-	-
	S-2-20150527-GW	05/27/2015	0.28	-86.4	-	-	-	-	-
	S-2-20161107-GW	11/07/2016	1.01	-165.5	-	-	-	-	-
	S-2-20170214-GW	02/14/2017	0.4	-88	-	-	-	-	-
	S-2-20170508-GW	05/08/2017	0.43	-90.5	-	-	-	-	-
	S-2-20170814-GW	08/14/2017	0.71	-115.4	-	-	-	-	-
	S-2-20181108-GW	11/08/2018	0.89	-119.3	0.75	6.5	0.94	0.12	7.6
	S-2-20190507-GW	05/07/2019	0.16	-32.1	1.25	0.97	0.74	0.13	37
	S2-201								

TABLE 5
SUMMARY OF GEOCHEMICAL RESULTS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Sample Location	Sample Name	Sample Date	Dissolved Oxygen, Field (a) mg/L	Oxidation Reduction Potential (ORP), mv	Ferrous Iron, Field (b) mg/L	Manganese, Total mg/L	Methane, Total mg/L	Nitrate (as N), Total mg/L	Sulfate mg/L
YMW-3	YMW3-20160201-GW	02/01/2016	0.39	208.3	-	-	-	-	-
	YMW-3-20160510-GW	05/10/2016	0.4	-196	-	-	-	-	-
	YMW-3-20160726-GW	07/26/2016	0.71	-206.4	-	-	-	-	-
	YMW-3-20161109-GW	11/09/2016	0.93	-188.3	-	-	-	-	-
	YMW-3-20170215-GW	02/15/2017	0.34	-99.3	1.5	1.9	-	0.08	5 U
	YMW-3-20170509-GW	05/09/2017	0.24	-95.1	-	-	-	-	-
	YMW-3-20170816-GW	08/16/2017	0.1	-169.1	-	-	-	-	-
	YMW-3-20181108-GW	11/08/2018	0.67	-130.9	1	0.83	0.59	0.05 U	20 U
	YMW-3-DUP-20181108-GW	11/08/2018	-	-	1	0.86	0.67	0.069	20 U
	YMW-3-20190508-GW	05/08/2019	0.18	-57.9	0	0.78	0.97	0.15	5 U
	YMW3-20191106-GW	11/06/2019	0.2	-128.4	1	1	1.1	0.32	5 U
	YMW-3-20200505-GW	05/05/2020	0	-143.8	2.5	0.92	1.3	0.21	5 U
	YMW-3-20201103-GW	11/03/2020	0.1	-148.1	1	0.4	1.3	0.16	7.3
	YMW3-20210504-GW	05/04/2021	0.08	-135.2	1	0.58	1.2	0.21	8.5
	YMW-3-20211102-GW	11/02/2021	0.01	-138.6	2	1.8	2.3	0.12	7.8
	YMW3-W-15-20231011	10/11/2023	1.87	171.8	6.1	1.5	1.2	0.05 U	5 U

ABBREVIATIONS AND NOTES:

-: Not Analyzed

Bold values indicate a detected concentration.

D: result is a dilution

mg/L: milligrams per liter

mV = millivolt

U: not detected, value is the laboratory reporting limit

(a)Measured in the field, using a YSI meter and flow-through cell.

(b)Measured in the field, using a Hach test kit, Model IR-18C.

TABLE 6
SUMMARY OF GROUNDWATER HVOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

PAGE 1 OF 1

Sample Location	Sample Name	Sample Date	Sample Depth (bgs)	Halogenated Volatile Organic Compounds (HVOCs)					
				1,1-Dichloroethene ug/L NA	cis-1,2-Dichloroethene ug/L NA	Tetrachloroethene ug/L 5	trans-1,2-Dichloroethene ug/L NA	Trichloroethene ug/L 5	Vinyl chloride ug/L 0.2
KMW-5	KMW5-20191104-GW	11/04/2019	-	0.2 U	0.3	21	0.2 U	1.9	0.2 U
	KMW-5-20200504-GW	05/04/2020	-	0.2 U	0.78	7.3	0.36	4.2	0.2 U
	KMW-5-20201102-GW	11/02/2020	-	0.2 U	0.57	11	0.2 U	3.9	0.2 U
	KMW5-20210503-GW	05/03/2021	-	0.2 U	0.76	4.5	0.48	3.8	0.2 U
	KMW-5-20211102-GW	11/02/2021	14 (ft)	0.2 U	0.31	16	0.2 U	3.9	0.2 U
	KMW5-W-13-20231010	10/10/2023	13 (ft)	0.2 U	0.31	13	0.2 U	2.2	0.2 U
KMW-6	KMW6-20191104-GW	11/04/2019	-	1 U	1.2	19	1 U	2	1 U
	KMW-6-20200504-GW	05/04/2020	-	0.2 U	0.26	28	0.2 U	1.2	0.2 U
	KMW6-6-20201103-GW	11/03/2020	-	0.4 U	1	23	0.7	2.1	0.4 U
	KMW6-6-20210503-GW	05/03/2021	-	0.2 U	0.35	23	0.23	1.2	0.2 U
	KMW6-6-20211101-GW	11/01/2021	14 (ft)	0.2 U	0.85	22	0.82	3.3	0.2 U
	KMW6-W-14-20231010	10/10/2023	14 (ft)	0.8 U	0.8 U	27	0.8 U	4.3	0.8 U
KMW-7	KMW7-20200505-GW	05/05/2020	-	0.2 U	0.2 U	33	0.2 U	0.26	0.2 U
	KMW7-7-20201103-GW	11/03/2020	-	0.2 U	0.63	25	0.2 U	0.94	0.2 U
	KMW7-7-20210504-GW	05/04/2021	-	0.2 U	0.2 U	27	0.2 U	0.2 U	0.2 U
	KMW7-7-20211102-GW	11/02/2021	16 (ft)	0.2 U	0.35	29	0.2 U	0.53	0.2 U
	KMW7-W-15-20231011	10/11/2023	15 (ft)	0.2 U	0.2 U	27	0.2 U	0.2 U	0.2 U
KMW-14	KMW14-20191105-GW	11/05/2019	-	0.2 U	0.34	0.27	0.2 U	0.2 U	0.55
	KMW14-20200504-GW	05/04/2020	-	0.2 U	0.62	0.2 U	0.2 U	0.31	0.54
	KMW14-20201102-GW	11/02/2020	-	0.2 U	0.45	0.35	0.2 U	0.25	0.69
	KMW14-20210503-GW	05/03/2021	-	0.2 U	0.53	0.28	0.2 U	0.3	0.63
	KMW14-20211101-GW	11/01/2021	16 (ft)	0.2 U	0.47	0.63	0.2 U	0.27	0.82
	KMW14-W-15-20231010	10/10/2023	15 (ft)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
KMW-15	KMW15-20191105-GW	11/05/2019	-	0.2 U	0.2 U	29	0.2 U	0.52	0.2 U
	KMW15-20200504-GW	05/04/2020	-	0.2 U	0.2 U	31	0.2 U	0.66	0.2 U
	KMW15-20201102-GW	11/02/2020	-	0.2 U	0.2 U	30	0.2 U	0.61	0.2 U
	KMW15-20210503-GW	05/03/2021	-	0.2 U	0.2 U	28	0.2 U	0.57	0.2 U
	KMW15-20211101-GW	11/01/2021	15 (ft)	0.2 U	0.2 U	30	0.2 U	0.63	0.2 U
	KMW15-W-15-20231010	10/10/2023	15 (ft)	0.2 U	0.37	5.2	0.2 U	1.8	0.47
KMW-16	KMW16-20191105-GW	11/05/2019	-	0.2 U	0.39	8	0.2 U	0.75	0.51
	KMW16-20200504-GW	05/04/2020	-	0.2 U	0.2 U	23	0.2 U	0.62	0.2 U
	KMW16-20201102-GW	11/02/2020	-	0.2 U	0.47	11	0.2 U	0.97	0.3
	KMW16-20210503-GW	05/03/2021	-	0.2 U	0.2 U	21	0.2 U	0.66	0.2 U
	KMW16-20211101-GW	11/01/2021	15 (ft)	0.2 U	0.47	9.6	0.2 U	1.2	0.39
	KMW16-W-11-20231010	10/10/2023	11 (ft)	2 U	2 U	2 U	2 U	2 U	2
MW-10	MW-10-20200505-GW	05/05/2020	-	0.2 U	0.2 U	31	0.2 U	0.2 U	0.2 U
	MW-10-20211103-GW	11/03/2020	-	0.2 U	0.2 U	26	0.2 U	0.2 U	0.2 U
	MW-10-20210504-GW	05/04/2021	-	0.2 U	0.2 U	26	0.2 U	0.2 U	0.2 U
	MW-10-20211102-GW	11/02/2021	13.5 (ft)	0.2 U	0.2 U	26	0.2 U	0.2 U	0.2 U
	MW10-W-15-20231011	10/11/2023	15 (ft)	0.2 U	0.2 U	23	0.2 U	0.2 U	0.2 U
MW-11	MW11-W-13-20231011	10/11/2023	13 (ft)	20 U	20 U	20 U	20 U	20 U	20 U
MW-13	MW13-20210504-GW	05/04/2021	-	0.2 U	2.9	1.2	0.2 U	1.7	0.98
	MW13-W-15-20231011	10/11/2023	15 (ft)	0.8 U	2.9	4.3	0.8 U	2.5	1.1
MWG-2	MWG2-20191105-GW	11/05/2019	-	0.2 U	0.2 U	27	0.2 U	0.41	0.2 U
	MWG2-20200505-GW	05/05/2020	-	0.2 U	0.2 U	29	0.2 U	0.23	0.2 U
	MWG2-2-20201103-GW	11/03/2020	-	0.2 U	0.2 U	30	0.2 U	0.39	0.2 U
	MWG2-20210504-GW	05/04/2021	-	0.2 U	0.2 U	27	0.2 U	0.21	0.2 U
	MWG2-2-20211102-GW	11/02/2021	12 (ft)	0.2 U	0.2 U	29	0.2 U	0.5	0.2 U
	MWG2-W-10-20231010	10/10/2023	10 (ft)	0.2 U	0.2 U	28	0.2 U	0.26	0.2 U
MWG-3	MWG3-20191105-GW	11/05/2019	-	10 U	10 U	13	10 U	10 U	10 U
	MWG3-2-20200505-GW	05/05/2020	-	2 U	2.9	8.8	2 U	2 U	2.1
	MWG3-2-20211102-GW	11/02/2021	10 (ft)	10 U	10 U	12	10 U	10 U	10 U
	MWG3-W-10-20231010	10/10/2023	10 (ft)	8 U	8 U	8 U	8 U	8 U	8 U
	OS-LLMIP02	DSW-OS-LLMIP02-20210513-GW-17.0	05/13/2021	17 (ft)	0.2 U	0.2 U	3	0.2 U	0.2 U
	OS-LLMIP03	DSW-OS-LLMIP03-20210513-GW-20.0	05/13/2021	20 (ft)	0.2 U	0.2 U	16	0.2 U	0.2 U
S-2	OS-LLMIP05	DSW-OS-LLMIP05-20210513-GW-22.0	05/13/2021	22 (ft)	0.2 U	0.2 U	26	0.2 U	0.2 U
	OS-LLMIP07	DSW-OS-LLMIP07-20210513-GW-21.0	05/13/2021	21 (ft)	0.2 U	0.2 U	21	0.2 U	0.2 U
	OS-LLMIP09	DSW-OS-LLMIP09-20210514-GW-19.0	05/14/2021	19 (ft)	0.2 U	0.2 U	3.1	0.2 U	0.2 U
	S-2-20201102-GW	11/02/2020	-	1 U	3.6	1 U	1 U	1.9	1 U
	S2-20210503-GW	05/03/2021	-	1 U	1.7	1 U	1 U	1.4	1 U
	S2-2-20211102-GW	11/02/2021	10 (ft)	4 U	4 U	4 U	4 U	4 U	4 U
YMW-1	S2-W-10-20231010	10/10/2023	10 (ft)	4 U	4 U				

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-5												KMW-5-20201102-GW 11/02/2020 2011-020-04
		KMW-5-20150527-GW 05/27/2015 1505-282-03	KMW5-20160202-GW 02/02/2016 1602-026-08	KMW-5-20160509-GW 05/09/2016 1605-094-04	KMW-5-20160725-GW 07/25/2016 1607-230-06	KMW-5-20161107-GW 11/07/2016 1611-106-06	KMW-5-20170214-GW 02/14/2017 1702-152-03	KMW-5-20170508-GW 05/08/2017 1705-133-06	KMW-5-20170816-GW 08/16/2017 1708-229-09	KMW-5-20181106-GW 11/06/2018 1811-054-01	KMW-5-20190507-GW 05/07/2019 1905-111-03	KMW5-20191104-GW 11/04/2019 1911-058-01	KMW-5-20200504-GW 05/04/2020 2005-036-01	
Volatile Organic Compounds (ug/L)														
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1-Dichloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.29 U	0.2 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.27 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.26 U	0.2 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	-	-	-	-	1.5 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,2-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	5 U	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	-	-	-	1 U	1 U
2-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	2 U	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
4-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	2 U	-
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	5 U	-
Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U
Bromobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Bromodichloromethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Bromoform	NA	-	-	-	-	-	-	-	-	-	-	-	1 U	1 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.3 U
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
Carbon tetrachloride	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Chlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Chlorobromomethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Chloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	1 U	1 U
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	-	-	-	-	0.36	0.2 U
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	-	-	-	-	1 U	1.4 U
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	-	-	0.3	0.78
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
Dibromochloromethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Dibromomethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.2 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	0.25 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	-	-	-	-	1 U	1 U
Iodomethane	NA	-	-	-	-	-	-	-	-	-	-	-	1.3 U	1.5 U
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	4.5 U
m,p-Xylenes	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	0.4 U
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	-	-	-	-	-	1 U	1 U
Naphthalene	160	-	-	-	-	-	-	-	-	-	-	-	1.5 U	-
n-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
n-Propylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
o-Xylene	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U
Styrene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
tert-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U	-
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	21	7.3
Toluene	1000	1												

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-6							KMW-7						
		KMW-6-20190507-GW 05/07/2019 1905-111-05	KMW6-20191104-GW 11/04/2019 1911-058-02	KMW-6-20200504-GW 05/04/2020 2005-023-04	KMW-6-20201103-GW 11/03/2020 2011-031-02	KMW6-20210503-GW 05/03/2021 2105-012-02	KMW-6-20211101-GW 11/01/2021 2111-027-04	KMW6-W-14-20231010 14 (ft)	KMW-7-20150529-GW 05/29/2015 1505-282-15	KMW-7-20151102-GW 11/02/2015 1511-035-02	KMW7-20160203-GW 02/03/2016 1602-026-12	KMW-7-20160510-GW 05/10/2016 1605-094-08	KMW-7-20160726-GW 07/26/2016 1607-230-09	KMW-7-20161109-GW 11/09/2016 1611-106-15	
Volatile Organic Compounds (ug/L)															
1,1,1,2-Tetrachloroethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,1,2-Trichloroethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,1-Dichloroethene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,1-Dichloropropene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	NA	-	1.5 U	0.2 U	0.4 U	0.2 U	0.2 U	4 U	-	-	-	-	-	-	-
1,2,3-Trichloropropane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	NA	-	1.3 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	NA	-	4.4	0.2 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	7.5 U	1 U	2 U	1 U	1.3 U	4 U	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2-Dichlorobenzene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2-Dichloroethane	5	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,2-Dichloropropane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	NA	-	1.3	0.2 U	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,3-Dichloropropane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
1,4-Dichlorobenzene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
2,2-Dichloropropane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	25 U	5 U	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	NA	-	5 U	1 U	2 U	1 U	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	10 U	2 U	-	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	1.2	0.2 U	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	10 U	2 U	-	-	-	-	-	-	-	-	-	-	-
Acetone	NA	-	25 U	6.7 U	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	49	100	10	72	5.1	31	69	8.4	13	47	25	3.1	5	
Bromobenzene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Bromodichloromethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Bromoform	NA	-	5 U	1 U	2 U	1 U	1 U	4 U	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	NA	-	1 U	0.26 U	0.92 U	0.2 U	2.3 U	4 U	-	-	-	-	-	-	-
Carbon disulfide	NA	-	1 U	0.2 U	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Chlorobenzene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Chlorobromomethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Chloroethane	NA	-	5 U	1 U	2 U	1 U	1 U	4 U	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	NA	-	1 U	0.44	0.77	0.44	0.73	0.8 U	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	NA	-	5 U	1.3 U	2 U	1 U	1 U	4 U	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	NA	-	1.2	0.26	1	0.35	0.85	0.8 U	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	1 U	0.2 U	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Dibromomethane	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	-	1 U	0.2 U	0.4 U	0.2 U	0.2 U	0.8 U	-	-	-	-	-	-	-
Ethylbenzene	700	8.4	24	0.39	29	0.21	25	80	14	21	41	21	1.5	6.3	
Hexachlorobutadiene	NA	-	5 U	1 U	2 U	1 U	1 U	4 U	-	-	-	-	-	-	-
Iodomethane	NA	-	6.5 U	1 U	9.2 U	1 U	1.7 U	10 U	-	-	-	-	-	-	-
Isopropylbenzene (Cumene)	NA	-	3.2	0.2 U	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	1 U	7	0.4 U	11	0.4 U	5.4	13	47	5.1	2.1	1 U	1 U	2.5	
Methyl Tert Butyl Ether (MTBE)	20	-	1 U	0.2 U	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride (Dichloromethane)	5	-	5 U												

TABLE 7
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YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-7								KMW-7	KMW-8	KMW-10		
		KMW-7-20170214-GW 02/14/2017 1702-152-04	KMW-7-20170509-GW 05/09/2017 1705-133-11	KMW-7-20170816-GW 08/16/2017 1708-229-11	KMW-7-20181108-GW 11/08/2018 1811-095-02	KMW-7-20190508-GW 05/08/2019 1905-124-03	KMW-7-20200505-GW 05/05/2020 2005-036-12	KMW-7-20201103-GW 11/03/2020 2011-031-08	KMW7-20210504-GW 05/04/2021 2105-024-01	KMW-7-20211102-GW 11/02/2021 2111-047-06	16 (ft)	KMW7-W-15-20231011 10/11/2023 2310-129-03	KMW-8-20150529-GW 05/29/2015 1505-282-16	KMW-10-20150529-GW 05/29/2015 1505-282-14
Volatile Organic Compounds (ug/L)														
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1,1-Trichloroethane	200	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1-Dichloroethene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1-Dichloroethene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,1-Dichloropropene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	1 U	-	-	
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.25 U	0.2 U	0.2 U	-	
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,2-Dichloroethane	5	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,2-Dichloropropane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,3-Dichloropropane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
2,2-Dichloropropane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	5 U	-	-	-	-	-	
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	1 U	1 U	1 U	-	-	-	
2-Chlorotoluene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	2 U	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
4-Chlorotoluene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	2 U	-	-	-	-	-	
Acetone	NA	-	-	-	-	-	-	5 U	-	-	-	-	-	
Benzene	5	12	110	1 U	1.3	3.2	-	0.2 U	0.39	0.2 U	0.2 U	0.2 U	1 U	830
Bromobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Bromodichloromethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Bromoform	NA	-	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	0.3 U	0.46 U	0.2 U	2.3 U	1 U	-	
Carbon disulfide	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
Carbon tetrachloride	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Chlorobenzene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Chlorobromomethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Chloroethane	NA	-	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	0.57	0.62	0.6	0.63	0.61	-	
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	1.4 U	1 U	1 U	1 U	-	-	
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	0.2 U	0.63	0.2 U	0.35	0.2 U	-	
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
Dibromochloromethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Dibromomethane	NA	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	-	-	
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	0.25 U	0.2 U	0.25 U	0.2 U	-	-	
Ethylbenzene	700	30	150	1 U	8.3	40	0.22	24	0.2 U	12	0.35	1 U	1200	
Hexachlorobutadiene	NA	-	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	
Iodomethane	NA	-	-	-	-	-	-	1.5 U	4.6 U	1 U	1.7 U	2.5 U	-	
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
m,p-Xylenes	NA	4.6	180	1 U	2.8	6.7	0.4 U	7.6	0.4 U	4.2	0.4 U	1	4400	
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	
Naphthalene	160	-	-	-	-	-	-	1 U	-	1 U	3	-	-	
n-Butylbenzene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
n-Propylbenzene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
o-Xylene	NA	1 U	16	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	2000	
Styrene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
tert-Butylbenzene	NA	-	-	-	-	-	-	0.2 U	-	-	-	-	-	
Tetrachloroethene	5	-	-	-	-	-	-	33	25	27	29	27	-	

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-14											
		KMW-14-20150528-GW 05/28/2015 1505-282-04	KMW-14-20151103-GW 11/03/2015 1511-035-03	KMW-14-20160202-GW 02/02/2016 1602-026-05	KMW-14-20160509-GW 05/09/2016 1605-094-02	KMW-14-20160725-GW 07/25/2016 1607-230-01	KMW-14-20161107-GW 11/07/2016 1611-106-01	KMW-14-20170215-GW 02/15/2017 1702-152-06	KMW-14-20170508-GW 05/08/2017 1705-133-01	KMW-14-20170815-GW 08/15/2017 1708-229-05	KMW-14-20181106-GW 11/06/2018 1811-054-03	KMW-14-20190507-GW 05/07/2019 1905-111-01	KMW-14-20191105-GW 11/05/2019 1911-058-05
Volatile Organic Compounds (ug/L)													
1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1-Dichloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.29 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.26 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	-	-	-	-	1.5 U
1,2-Dibromoethane (Ethylene Bromide)	0.01	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	5 U
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
2-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	2 U
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
4-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	2 U
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	5 U
Benzene	5	1.9	5.5	3	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	0.2 U
Bromobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Bromodichloromethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Bromoform	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Carbon tetrachloride	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Chlorobenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Chlorobromomethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Chloroethane	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	-	-	0.34
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Dibromochloromethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Dibromomethane	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
Iodomethane	NA	-	-	-	-	-	-	-	-	-	-	-	1.3 U
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
m,p-Xylenes	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	-	-	-	-	-	1 U
Naphthalene	160	-	-	-	-	-	-	-	-	-	-	-	1.5 U
n-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
n-Propylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
o-Xylene	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U
Styrene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
tert-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	0.27
Toluene	1000	1 U	1 U	1 U	1 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
trans-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Trichloroethene	5	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Trichlorofluoromethane (CFC-11)	NA	-	-	-	-	-	-	-	-	-	-	-	0.2 U
Vinyl acetate	NA	-	-	-	-	-	-	-	-	-	-	-	1 U
Vinyl chloride	0.2	-	-	-	-								

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-14					KMW-15									
		KMW-14-20200504-GW 05/04/2020 2005-023-01	KMW-14-20201102-GW 11/02/2020 2011-020-03	KMW-14-20210503-GW 05/03/2021 2105-012-03	KMW-14-20211101-GW 11/01/2021 2111-027-03	KMW14-W-15-20231010 10/10/2023 2310-129-04	KMW-15-20151103-GW 11/03/2015 1511-035-04	KMW15-20160202-GW 02/02/2016 1602-026-06	KMW-15-20160509-GW 05/09/2016 1605-094-03	KMW-15-20160725-GW 07/25/2016 1607-230-03	KMW-15-20161107-GW 11/07/2016 1611-106-03	KMW-15-20170215-GW 02/15/2017 1702-152-08	KMW-15-20170508-GW 05/08/2017 1705-133-03			
		-	-	-	16 (ft)	15 (ft)	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds (ug/L)																
1,1,1,2-Tetrachloroethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,1,1-Trichloroethane	200	0.2 U	-	-	-	-	-	-	-	-	-					
1,1,2,2-Tetrachloroethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,1,2-Trichloroethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,1-Dichloroethene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,1-Dichloropropene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,2,3-Trichlorobenzene	NA	0.2 U	0.2 U	0.2 U	0.2 U	1 U	-	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	NA	0.2 U	0.27 U	0.2 U	0.2 U	0.2 U	-	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,2,4-Trimethylbenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	NA	1 U	1 U	1 U	1.3 U	1 U	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.01	0.2 U	-	-	-	-	-	-	-	-	-					
1,2-Dichlorobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,2-Dichloroethane	5	0.2 U	-	-	-	-	-	-	-	-	-					
1,2-Dichloropropane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,3,5-Trimethylbenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,3-Dichloropropane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
1,4-Dichlorobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
2,2-Dichloropropane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
2-Butanone (Methyl Ethyl Ketone)	NA	5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloroethyl vinyl ether	NA	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorotoluene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
2-Hexanone (Methyl Butyl Ketone)	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorotoluene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	NA	6.7 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	5	0.2 U	0.2 U	0.22	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Bromobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Bromodichloromethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Bromoform	NA	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl Bromide)	NA	0.26 U	0.5 U	0.2 U	2.3 U	1 U	-	-	-	-	-	-	-	-	-	
Carbon disulfide	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Chlorobenzene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Chlorobromomethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Chloroethane	NA	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Chloromethane (Methyl Chloride)	NA	1.3 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	NA	0.62	0.45	0.53	0.47	0.2 U	-	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Cymene (p-Isopropyltoluene)	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Dibromomethane	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Dichlorodifluoromethane (CFC-12)	NA	0.2 U	-	-	-	-	-	-	-	-	-					
Ethylbenzene	700	0.2 U	0.2 U	0.35	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Hexachlorobutadiene	NA	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	
Iodomethane	NA	1 U	4.5 U	1 U	1.7 U	2.5 U	-	-	-	-	-	-	-	-	-	
Isopropylbenzene (Cumene)	NA	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
m,p-Xylenes	NA	0.4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U					
Methyl Tert Butyl Ether (MTBE)	20															

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name	Sample Name	MTCA Method A	KMW-15												
			KMW-15-20170815-GW	KMW-15-20181106-GW	KMW-15-20190507-GW	KMW15-20191105-GW	KMW-15-20200504-GW	KMW-15-20201102-GW	KMW15-20210503-GW	KMW-15-20211101-GW	KMW15-W-15-20231010	KMW-16-20150528-GW	KMW-16-20151103-GW	KMW16-20160202-GW	
			Sample Date	08/15/2017	11/06/2018	05/07/2019	11/05/2019	05/04/2020	11/02/2020	05/03/2021	11/01/2021	10/10/2023	05/28/2015	11/03/2015	02/02/2016
			Lab Sample ID	1708-229-07	1811-054-05	1905-111-02	-	-	2005-023-02	2011-020-01	-	2111-027-02	2310-129-05	1505-282-05	1511-035-05
			Sample Depth (bgs)	-	-	-	-	-	-	-	15 (ft)	15 (ft)	-	-	-
Volatile Organic Compounds (ug/L)															
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,2-Trichloroethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1-Dichloroethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1-Dichloroethene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1-Dichloropropene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	0.29 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	-	-
1,2,3-Trichloropropane	NA	-	-	-	-	-	0.2 U	0.2 U	0.27 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	1.5 U	1 U	1 U	1 U	1.3 U	1 U	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichlorobenzene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichloroethane	5	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichloropropane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,3-Dichloropropane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,4-Dichlorobenzene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2,2-Dichloropropane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	5 U	5 U	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	1 U	1 U	1 U	1 U	-	-	-	-	-
2-Chlorotoluene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	2 U	2 U	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
4-Chlorotoluene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	2 U	2 U	-	-	-	-	-	-	-
Acetone	NA	-	-	-	-	-	5 U	6.7 U	-	-	-	-	-	-	-
Benzene	5	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3	60	1 U	1 U
Bromobenzene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Bromodichloromethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Bromoform	NA	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	0.2 U	0.26 U	0.5 U	0.2 U	2.3 U	1 U	-	-	-
Carbon disulfide	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
Carbon tetrachloride	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chlorobenzene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chlorobromomethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chloroethane	NA	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Chloroform (Trichloromethane)	NA	-	-	-	-	-	0.49	0.51	0.49	0.53	0.49	0.2 U	-	-	-
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	1 U	1.3 U	1 U	1 U	1 U	1 U	-	-	-
cis-1,2-Dichloroethene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.37	-	-
cis-1,3-Dichloropropene	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
Dibromochloromethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Dibromomethane	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Ethylbenzene	700	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	9.6	1 U	1 U
Hexachlorobutadiene	NA	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Iodomethane	NA	-	-	-	-	-	1.3 U	1 U	4.5 U	1 U	1.7 U	2.5 U	-	-	-
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
m,p-Xylenes	NA	1 U	1 U	1 U	1 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	4.6	1 U	1 U
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-</td									

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-16								KMW-16		
		KMW-16-20160509-GW 05/09/2016 1605-094-01	KMW-16-20160725-GW 07/25/2016 1607-230-02	KMW-16-20161107-GW 11/07/2016 1611-106-02	KMW-16-20170508-GW 05/08/2017 1705-133-02	KMW-16-20170815-GW 08/15/2017 1708-229-06	KMW-16-20181106-GW 11/06/2018 1811-054-04	KMW-16-20190507-GW 05/07/2019 1905-111-04	KMW16-20191105-GW 11/05/2019 1911-058-06	KMW-16-20200504-GW 05/04/2020 2005-023-03	KMW-16-20201102-GW 11/02/2020 2011-020-02	KMW16-20210503-GW 05/03/2021 2105-012-05
		-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)												
1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	0.29 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	0.26 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	0.32	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	1.5 U	1 U	1 U	1.3 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	5	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	5 U	5 U	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	1 U	1 U	1 U	-
2-Chlorotoluene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	2 U	2 U	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	0.32	0.38	-	-
4-Chlorotoluene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	2 U	2 U	-	-
Acetone	NA	-	-	-	-	-	-	-	5 U	6.7 U	-	-
Benzene	5	7.6	1 U	1 U	2.9	1 U	1 U	2.6	0.2 U	29	0.62	33
Bromobenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	NA	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	0.2 U	0.26 U	0.5 U	0.2 U
Carbon disulfide	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
Carbon tetrachloride	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobromomethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	NA	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	0.2 U	0.37	0.2 U	0.48
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	1 U	1.3 U	1 U	1 U
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	0.39	0.2 U	0.47	0.47
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
Dibromochloromethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	4	0.2 U	0.88
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U
Iodomethane	NA	-	-	-	-	-	-	-	1.3 U	4.5 U	1 U	1.7 U
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	0.2 U	0.89	-	-
m,p-Xylenes	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.4 U	2.1	0.4 U	0.51
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U
Naphthalene	160	-	-	-	-	-	-	-	1.5 U	3.4	-	1 U
n-Butylbenzene	NA	-	-	-	-	-	-	-	0.2 U	0.42	-	-
n-Propylbenzene	NA	-	-	-	-	-	-	-	0.2 U	0.95	-	-
o-Xylene	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
Styrene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
tert-Butylbenzene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	-	-
Tetrachloroethene	5	-	-	-	-	-	-	-	8	23	11	21
Toluene	1000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene</												

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	KMW-18		KMW-24		MW-7	MW-9								
		KMW16-W-11-20231010 10/10/2023 2310-129-06	KMW-18-20150527-GW 05/27/2015 1505-282-02	KMW-24-20150529-GW 05/29/2015 1505-282-12	KMW-24-DUP-20150529-GW 05/29/2015 1505-282-13	MW7-20191106-GW 11/06/2019 1911-071-03	MW-9-20150528-GW 05/28/2015 1505-282-11	MW-9-20151103-GW 11/03/2015 1511-035-08	MW9-20160202-GW 02/02/2016 1602-026-11	MW-9-20160510-GW 05/10/2016 1605-094-13	MW-9-20160726-GW 07/26/2016 1607-230-12	MW-9-20161108-GW 11/08/2016 1611-106-13	MW-9-20170215-GW 02/15/2017 1702-152-14	MW-9-20170509-GW 05/09/2017 1705-133-16	
		11 (ft)	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds (ug/L)															
1,1,1,2-Tetrachloroethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	200	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloroethene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,1-Dichloropropene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.01	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethane	5	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichloropropane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
2,2-Dichloropropane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorotoluene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorotoluene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	5	260	1 U	1 U	1.7	12	1200	1800	1800	1500	1400	810	390	300	
Bromobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl Bromide)	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobromomethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane (Methyl Chloride)	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
cis-1,2-Dichloroethene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
cis-1,3-Dichloropropene	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromomethane	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (CFC-12)	NA	2 U	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	700	370	1 U	1 U	1 U	850	740	720	850	960	1300	1300	1300	990	
Hexachlorobutadiene	NA	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
Iodomethane	NA	25 U	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
m,p-Xylenes	NA	79	1 U	1 U	1 U	3500	1800	1500	1700	1900	2300	2100	2000	1400	
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene chloride (Dichloromethane)	5	10 U	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	160	-	-	-	-	-	-	-	-	-	-	-	-	-	
n-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
n-Propylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
o-Xylene	NA	2 U	1 U	1 U	1 U	770	980	740	970	910	1300	1200	1200	870	
Styrene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
tert-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	5	2 U	-	-	-	-									

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	MW-10						MW-11									
		MW-10-20190508-GW 05/08/2019 1905-124-02	MW-10-20200505-GW 05/05/2020 2005-036-05	MW-10-20201103-GW 11/03/2020 2011-031-07	MW-10-20210504-GW 05/04/2021 2105-024-02	MW-10-20211102-GW 11/02/2021 2111-047-05	MW-10-W-15-20231011 10/11/2023 2310-129-07	13.5 (ft)	15 (ft)	MW-11-20160726-GW 07/26/2016 1607-230-11	MW-11-20161108-GW 11/08/2016 1611-106-14	MW-11-20170509-GW 05/09/2017 1705-133-12	MW-11-20170816-GW 08/16/2017 1708-229-12	MW-11-W-13-20231011 10/11/2023 2310-129-08	13 (ft)	MW-13-20150528-GW 05/28/2015 1505-282-10	MW-13-20170816-GW 08/16/2017 1708-229-14
		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Volatile Organic Compounds (ug/L)																	
1,1,1,2-Tetrachloroethane	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,1,1-Trichloroethane	200	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,1,2,2-Tetrachloroethane	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,1,2-Trichloroethane	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,1-Dichloroethene	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,1-Dichloropropene	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,2,3-Trichlorobenzene	NA	-	0.2 U	1 U	-	-	-	-	-	100 U	-	-					
1,2,3-Trichloropropane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,2,4-Trichlorobenzene	NA	-	0.2 U	-	-	-	-	-	-	20 U	-	-					
1,2,4-Trimethylbenzene	NA	-	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	100 U	-	-	
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,2-Dichlorobenzene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,2-Dichloroethane	5	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,2-Dichloropropane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,3,5-Trimethylbenzene	NA	-	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,3-Dichloropropane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
1,4-Dichlorobenzene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
2,2-Dichloropropane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
2-Butanone (Methyl Ethyl Ketone)	NA	-	5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Chloroethyl vinyl ether	NA	-	1 U	1 U	1 U	-	-	-	-	-	-	-	-	-	-	-	
2-Chlorotoluene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
2-Hexanone (Methyl Butyl Ketone)	NA	-	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	NA	-	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Chlorotoluene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acetone	NA	-	5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	5	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110	93	57	100 U	20 U	32	6.5		
Bromobenzene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Bromodichloromethane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Bromoform	NA	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	100 U	-	-	
Bromomethane (Methyl Bromide)	NA	-	0.3 U	0.46 U	0.2 U	2.3 U	1 U	-	-	-	-	-	-	100 U	-	-	
Carbon disulfide	NA	-	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Chlorobenzene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Chlorobromomethane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Chloroethane	NA	-	1 U	1 U	1 U	1 U	1 U	1 U	-	-	-	-	-	100 U	-	-	
Chloroform (Trichloromethane)	NA	-	0.55	0.5	0.59	0.42	0.69	-	-	-	-	-	-	20 U	-	-	
Chloromethane (Methyl Chloride)	NA	-	1.4 U	1 U	1 U	1 U	1 U	-	-	-	-	-	-	100 U	-	-	
cis-1,2-Dichloroethene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
cis-1,3-Dichloropropene	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Cymene (p-Isopropyltoluene)	NA	-	0.2 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Dibromomethane	NA	-	0.2 U	0.2 U	-	-	-	-	-	20 U	-	-					
Dichlorodifluoromethane (CFC-12)	NA	-	0.25 U	0.2 U	0.27 U	0.2 U	0.2 U	-	-	-	-	-	-	20 U	-	-	
Ethylbenzene	700	1 U	0.2 U														

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YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	MWG-2								MWG-3					
		MWG-2-20170814-GW 08/14/2017 1708-229-01	MWG-2-20181106-GW 11/06/2018 1811-054-07	MWG-2-20190507-GW 05/07/2019 1905-111-07	MWG-2-20191105-GW 11/05/2019 1911-058-07	MWG-2-20200505-GW 05/05/2020 2005-036-04	MWG-2-20201103-GW 11/03/2020 2011-031-01	MWG2-20210504-GW 05/04/2021 2105-024-04	MWG-2-20211102-GW 11/02/2021 2111-047-03	MWG2-W-10-20231010 10/10/2023 2310-129-09	MWG-3-20150528-GW 05/28/2015 1505-282-08	MWG-3-20170814-GW 08/14/2017 1708-229-02	MWG3-20191105-GW 11/05/2019 1911-058-08	MWG-3-20200505-GW 05/05/2020 2005-036-03	
		-	-	-	-	-	-	-	12 (ft)	10 (ft)	-	-	-		
Volatile Organic Compounds (ug/L)															
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,1,1-Trichloroethane	200	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,1,2-Trichloroethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,1-Dichloroethene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,1-Dichloropropene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	0.29 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	-	-	15 U	2 U
1,2,3-Trichloropropane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	13 U	2 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	0.2 U	0.23	-	-	-	-	-	-	590	490
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	1.5 U	1 U	1 U	1 U	1 U	-	-	-	75 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,2-Dichlorobenzene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,2-Dichloroethane	5	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,2-Dichloropropane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	160	130
1,3-Dichlorobenzene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,3-Dichloropropane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
1,4-Dichlorobenzene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
2,2-Dichloropropane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	5 U	5 U	-	-	-	-	-	-	250 U	50 U
2-Chloroethyl vinyl ether	NA	-	-	-	-	1 U	1 U	1 U	1 U	1 U	-	-	-	50 U	10 U
2-Chlorotoluene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	2 U	2 U	-	-	-	-	-	-	100 U	20 U
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	10 U	6.6
4-Chlorotoluene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	2 U	2 U	-	-	-	-	-	-	100 U	20 U
Acetone	NA	-	-	-	-	5 U	5 U	-	-	-	-	-	-	250 U	50 U
Benzene	5	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	3300	1100	920	220	
Bromobenzene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Bromodichloromethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Bromoform	NA	-	-	-	-	1 U	1 U	1 U	1 U	1 U	-	-	-	50 U	10 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	0.2 U	0.3 U	0.46 U	0.2 U	2.3 U	-	-	-	100 U	3 U
Carbon disulfide	NA	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	10 U	2 U
Carbon tetrachloride	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Chlorobenzene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Chlorobromomethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Chloroethane	NA	-	-	-	-	1 U	1 U	1 U	1 U	1 U	-	-	-	50 U	10 U
Chloroform (Trichloromethane)	NA	-	-	-	-	0.48	0.51	0.5	0.54	0.53	0.54	0.54	0.54	-	10 U
Chloromethane (Methyl Chloride)	NA	-	-	-	-	1 U	1.4 U	1 U	1 U	1 U	-	-	-	50 U	14 U
cis-1,2-Dichloroethene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2.9
cis-1,3-Dichloropropene	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	0.2 U	0.2 U	-	-	-	-	-	-	12	13 Y
Dibromochloromethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Dibromomethane	NA	-	-	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-	10 U	2 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	0.2 U	0.25 U	0.2 U	0.27 U	0.2 U	-	-	-	10 U	2.5 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2700	1100	340	130	
Hexachlorobutadiene	NA	-	-	-	-	1 U	1 U	1 U	1 U	1 U</					

TABLE 7
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YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A			OS-LLMIP02	OS-LLMIP03	OS-LLMIP05	OS-LLMIP07	OS-LLMIP09	S-1		
		MWG-3-20211102-GW 11/02/2021 2111-047-04	MWG3-W-10-20231010 10/10/2023 2310-129-10	DSW-OS-LLMIP02-20210513-GW-17.0 05/13/2021 2105-149-04	DSW-OS-LLMIP03-20210513-GW-20.0 05/13/2021 2105-149-02	DSW-OS-LLMIP05-20210513-GW-22.0 05/13/2021 2105-149-06	DSW-OS-LLMIP07-20210513-GW-21.0 05/13/2021 2105-149-08	DSW-OS-LLMIP09-20210514-GW-19.0 05/14/2021 2105-149-10	S-1-20150528-GW 05/28/2015 1505-282-09	S-2-20150527-GW 05/27/2015 1505-282-01	S-2-20161107-GW 11/07/2016 1611-106-05
		10 (ft)	10 (ft)	17 (ft)	20 (ft)	22 (ft)	21 (ft)	19 (ft)	-	-	-
Volatile Organic Compounds (ug/L)											
1,1,1,2-Tetrachloroethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,1-Trichloroethane	200	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,2,2-Tetrachloroethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1,2-Trichloroethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1-Dichloroethene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,1-Dichloropropene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,3-Trichlorobenzene	NA	10 U	40 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,3-Trichloropropane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,4-Trichlorobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2,4-Trimethylbenzene	NA	-	-	0.2 U	-	-	-				
1,2-Dibromo-3-chloropropane (DBCP)	NA	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichlorobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichloroethane	5	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,2-Dichloropropane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,3,5-Trimethylbenzene	NA	-	-	0.2 U	-	-	-				
1,3-Dichlorobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,3-Dichloropropane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
1,4-Dichlorobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2,2-Dichloropropane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	5.3	5 U	5 U	5 U	7.4	-	-	-
2-Chloroethyl vinyl ether	NA	-	-	1 U	1 U	1 U	1 U	1 U	-	-	-
2-Chlorotoluene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	2 U	2 U	2 U	2 U	2 U	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	0.2 U	-	-	-				
4-Chlorotoluene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	28	8.3	5 U	5 U	33	-	-	-
Acetone	NA	-	-								
Benzene	5	1200	1200	0.2 U	0.2 U	0.2 U	0.2 U	0.34	1 U	1300	3000
Bromobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Bromodichloromethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Bromoform	NA	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Bromomethane (Methyl Bromide)	NA	120 U	40 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Carbon disulfide	NA	-	-	0.2 U	0.2 U	0.2 U	0.2 U	0.32	-	-	-
Carbon tetrachloride	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chlorobenzene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chlorobromomethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Chloroethane	NA	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Chloroform (Trichloromethane)	NA	10 U	8 U	0.53	0.36	0.55	0.56	0.25	-	-	-
Chloromethane (Methyl Chloride)	NA	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
cis-1,2-Dichloroethene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
cis-1,3-Dichloropropene	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	-	0.2 U	-	-	-				
Dibromochloromethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Dibromomethane	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	10 U	8 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	-	-	-
Ethylbenzene	700	680	670	0.2 U	7.2	200	570				
Hexachlorobutadiene	NA	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Iodomethane	NA	85 U	100 U	2 U	2 U	2 U	2 U	2 U	-	-	-
Isopropylbenzene (Cumene)	NA	-	-	0.2 U	-	-	-				
m,p-Xylenes	NA	2100	1300	0.4 U	2	51	310				
Methyl Tert Butyl Ether (MTBE)	20	-	-	0.2 U	-	-	-				
Methylene chloride (Dichloromethane)	5	50 U	40 U	1 U	1 U	1 U	1 U	1 U	-	-	-
Naphthalene	160	340	-	1.3 U	-	-	-				
n-Butylbenzene	NA	-	-	0.2 U	-	-	-				
n-Propylbenzene	NA	-	-	0.2 U	-	-	-				
o-Xylene	NA	200	360	0.2 U	1.2	10 U	27				
Styrene	NA	-	-	0.2 U	-	-	-				
tert-Butylbenzene	NA	-	-	0.2 U	-	-	-				
Tetrachloroethene	5	12	8 U	3	16	26	21	3.1	-	-	-
Toluene	1000	180</									

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	S-2						S-2					YMW-1			
		S-2-20170214-GW 02/14/2017 1702-152-02	S-2-20170508-GW 05/08/2017 1705-133-07	S-2-20170814-GW 08/14/2017 1708-229-04	S-2-20181108-GW 11/08/2018 1811-095-03	S-2-20190507-GW 05/07/2019 1905-111-06	S-2-20191105-GW 11/05/2019 1911-058-09	S-2-20200504-GW 05/04/2020 2005-036-02	S-2-20201102-GW 11/02/2020 2011-020-05	S-2-20210503-GW 05/03/2021 2105-012-06	S-2-20211102-GW 11/02/2021 2111-047-01	S2-W-10-20231010 10/10/2023 2310-129-11	YMW-1-20151104-GW 11/04/2015 1511-035-09	YMW1-20160202-GW 02/02/2016 1602-026-10	YMW-1-20160510-GW 05/10/2016 1605-094-09	YMW-1-20160727-GW 07/27/2016 1607-230-13
Volatile Organic Compounds (ug/L)																
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	20 U	-	-	-
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	-	1.4 U	1 U	4 U	4 U	-	-	-
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	-	5 U	5 U	20 U	20 U	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2-Dichloroethane	5	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	5 U	5 U	-	-	-	-	-
2-Chlorotoluene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	2800	3300	2400	1800	640	1400	1400	1500	170	920	470	990	2200	1600	2400
Bromobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Bromodichloromethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Bromoform	NA	-	-	-	-	-	-	-	-	5 U	5 U	20 U	20 U	-	-	-
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	-	2.5 U	1 U	46 U	20 U	-	-	-
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Chlorobenzene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Chlorobromomethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Chloroethane	NA	-	-	-	-	-	-	-	-	5 U	5 U	20 U	20 U	-	-	-
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	-	5 U	5 U	20 U	20 U	-	-	-
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	-	3.6	1.7	4 U	4 U	-	-	-
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Dibromomethane	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	-	1 U	1 U	4 U	4 U	-	-	-
Ethylbenzene	700	530	710	500	510	280	520	610	590	88	550	340	470	840	750	930
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	-	5 U	5 U	20 U	20 U	-	-	-
Iodomethane	NA	-	-	-	-	-	-	-	-	23 U	5 U	34 U	50 U	-	-	-
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	260	510	370	220	87	170	350	130	5.1	160	110	1000	2400	2100</	

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	YMW-1				YMW-1									
		YMW-1-20161108-GW 11/08/2016 1611-106-10	YMW-1-20170215-GW 02/15/2017 1702-152-10	YMW-1-20170509-GW 05/09/2017 1705-133-09	YMW-1-20170817-GW 08/17/2017 1708-229-16	YMW-1-20181107-GW 11/07/2018 1811-079-02	YMW-1-20190508-GW 05/08/2019 1905-124-04	YMW-1-DUP-20190508-GW 05/08/2019 1905-124-06	YMW-1-20191105-GW 11/05/2019 1911-058-10	YMW-DUP-20191105-GW 11/05/2019 1911-058-12	YMW-1-20200505-GW 05/05/2020 2005-036-09	YMW-1-20201103-GW 11/03/2020 2011-031-05	YMW-1-20210504-GW 05/04/2021 2105-024-05	YMW-1-20211102-GW 11/02/2021 2111-047-10	
		-	-	-	-	-	-	-	-	-	-	-	-	-	15 (ft)
Volatile Organic Compounds (ug/L)															
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	15 U	15 U	10 U	2 U	4 U	4 U	4 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	13 U	13 U	10 U	2 U	4 U	4 U	4 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	380	420	630	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	75 U	75 U	50 U	10 U	20 U	20 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,2-Dichloroethane	5	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	53	61	70	24	-	-	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	250 U	250 U	250 U	50 U	-	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	50 U	50 U	50 U	10 U	20 U	-	-
2-Chlorotoluene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	100 U	100 U	100 U	20 U	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	3.1	-	-	-
4-Chlorotoluene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	100 U	100 U	100 U	20 U	-	-	-
Acetone	NA	-	-	-	-	-	-	-	250 U	250 U	250 U	50 U	-	-	-
Benzene	5	3300	3200	4400	4500	920	630	610	880	1000	750	1200	680	870	
Bromobenzene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
Bromodichloromethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	4 U
Bromoform	NA	-	-	-	-	-	-	-	50 U	50 U	50 U	10 U	20 U		
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	100 U	100 U	15 U	4.6 U	4 U	46 U	
Carbon disulfide	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2.6 U	-	-	
Carbon tetrachloride	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Chlorobenzene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Chlorobromomethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Chloroethane	NA	-	-	-	-	-	-	-	50 U	50 U	50 U	10 U	20 U		
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	50 U	50 U	70 U	10 U	20 U		
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2.1	-	-	
Dibromochloromethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Dibromomethane	NA	-	-	-	-	-	-	-	10 U	10 U	10 U	2 U	4 U	4 U	
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	10 U	10 U	13 U	2 U	5.4 U	4 U	
Ethylbenzene	700	1100	1500	1500	2100	670	490	480	720	800	800	860	580	950	
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	50 U	50 U	50 U	10 U	20 U		
Iodomethane	NA	-	-	-	-	-	-	-	65 U	65 U	75 U	46 U	40 U	34 U	
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	21	2					

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	YMW-2						YMW-2					
		YMW1-W-15-20231010 10/10/2023 2310-129-12 15 (ft)	YMW-2-20151104-GW 11/04/2015 1511-035-10	YMW-2-DUP-20151104-GW 11/04/2015 1511-035-11	YMW2-20160201-GW 02/01/2016 1602-026-01	YMW2-DUP-20160201-GW 02/01/2016 1602-026-02	YMW-2-20160510-GW 05/10/2016 1605-094-11	YMW-2-DUP-20160510-GW 05/10/2016 1605-094-12	YMW-2-20160727-GW 07/27/2016 1607-230-14	YMW-2-DUP-20160727-GW 07/27/2016 1607-230-15	YMW-2-20161108-GW 11/08/2016 1611-106-11	YMW-2-DUP-20161108-GW 11/08/2016 1611-106-12	YMW-2-20170215-GW 02/15/2017 1702-152-12
Volatile Organic Compounds (ug/L)													
1,1,1,2-Tetrachloroethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	8 U	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	880	72	76	380	380	240	240	1200	1200	180	190	300
Bromobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Bromoform	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Chlorobromomethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	700	1200	150	160	300	310	180	190	1500	1500	1000	1000	440
Hexachlorobutadiene	NA	40 U	-	-	-	-	-	-	-	-	-	-	-
Iodomethane	NA	100 U	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	1100	590	640	1700	1800	770	800	5800	5900	2300	2300	1000
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride (Dichloromethane)	5	40 U	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	160	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	NA	21	180	200	810	830	300	310	2200	2300	910	920	380
Styrene	NA	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	11	-	-	-	-	-	-	-	-	-	-	-
Toluene	1000	40 U	130	140	630	650	570	590	2800	2800	230	230	360
trans-1,2-Dichloroethene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	NA	8 U	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	8 U	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	NA												

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name	Sample Name	MTCA Method A	YMW-2											
			YMW-2-DUP-20170215-GW 02/15/2017 1702-152-13	YMW-2-20170509-GW 05/09/2017 1705-133-14	YMW-2-DUP-20170509-GW 05/09/2017 1705-133-15	YMW-2-20170817-GW 08/17/2017 1708-229-17	YMW-2-DUP-20170817-GW 08/17/2017 1708-229-18	YMW-2-20181107-GW 11/07/2018 1811-079-01	YMW-2-20190508-GW 05/08/2019 1905-124-07	YMW-20191105-GW 11/05/2019 1911-058-11	YMW-2-20200505-GW 05/05/2020 2005-036-06	YMW-2-DUP-20200505-GW 05/05/2020 2005-036-07	YMW-2-20201103-GW 11/03/2020 2011-031-03	YMW-2-DUP-20201103-GW 11/03/2020 2011-031-04
Volatile Organic Compounds (ug/L)			-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	150	170	720	710
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2-Dichloroethane	5	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	13	14
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	250 U	250 U	50 U	50 U
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
2-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	100 U	100 U	20 U	20 U
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	5.9	6.3
4-Chlorotoluene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	100 U	100 U	20 U	20 U
Acetone	NA	-	-	-	-	-	-	-	-	-	250 U	250 U	50 U	50 U
Benzene	5	340	380	370	69	67	39	410	41	360	370	320	320	320
Bromobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Bromodichloromethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Bromoform	NA	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	-	-	-	15 U	15 U	4.6 U	4.6 U
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2.6 U	2.6 U
Carbon tetrachloride	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Chlorobenzene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Chlorobromomethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Chloroethane	NA	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	-	-	-	70 U	70 U	10 U	10 U
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	4.2	3.8
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	3.9	4.1
Dibromochloromethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Dibromomethane	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	-	-	-	13 U	13 U	2 U	2 U
Ethylbenzene	700	500	330	320	650	630	380	810	340	1400	1400	1000	990	
Hexachlorobutadiene	NA	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
Iodomethane	NA	-	-	-	-	-	-	-	-	-	75 U	75 U	46 U	46 U
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	53	51	35	35
m,p-Xylenes	NA	1100	450	440	630	620	160	1600	79	1300	1300	1300	1300	
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	-	-	-	50 U	50 U	10 U	10 U
Naphthalene	160	-	-	-	-	-	-	-	-	-	460 Y	500 Y	350	340
n-Butylbenzene	NA	-	-	-	-	-	-	-	-	-	14 Y	14 Y	13	13
n-Propylbenzene	NA	-	-	-	-	-	-	-	-	-	150	150	93	97
o-Xylene	NA	430	360	350	110	110	29	600	31	23	23	85	88	
Styrene	NA	-	-	-	-	-	-	-	-	-	10 U	10 U	2 U	2 U

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name	Sample Name	MTCA Method A	YMW-2						YMW-3							
			YMW2-20210504-GW	YMW2-DUP-20210504-GW	YMW-2-20211102-GW	YMW-2-DUP-20211102-GW	YMW2-W-15-20231010	YMW-DUP-W-DEPTH-20231011	YMW3-20160201-GW	YMW-3-20160510-GW	YMW-3-20160726-GW	YMW-3-20161109-GW	YMW-3-20170215-GW	YMW-3-20170509-GW		
			Sample Date	05/04/2021	05/04/2021	11/02/2021	11/02/2021	10/10/2023	10/11/2023	02/01/2016	05/10/2016	07/26/2016	11/09/2016	02/15/2017	05/09/2017	
			Lab Sample ID	2105-024-06	2105-024-08	2111-047-07	16 (ft)	2111-047-08	2310-129-13	2310-129-15	1602-026-03	1605-094-10	1607-230-10	1611-106-16	1702-152-11	1705-133-13
	Sample Depth (bgs)			-	-	16 (ft)	16 (ft)	15 (ft)	-	-	-	-	-	-	-	-
Volatile Organic Compounds (ug/L)																
1,1,1,2-Tetrachloroethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	NA	4 U	4 U	2 U	2 U	5 U	10 U	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	NA	5 U	5 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	0.01	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	5	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	NA	20 U	20 U	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	5	180	190	30	30	35	41	3100	2000	2000	2800	990	900			
Bromobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Bromodichloromethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Bromoform	NA	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl Bromide)	NA	4 U	4 U	23 U	23 U	5 U	10 U	-	-	-	-	-	-	-	-	-
Carbon disulfide	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Chlorobenzene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Chlorobromomethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Chloroethane	NA	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl Chloride)	NA	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	NA	4 U	4 U	7.6	7.4	7.5	7.3	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Dibromomethane	NA	4 U	4 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	5 U	5 U	2 U	2 U	1 U	2 U	-	-	-	-	-	-	-	-	-
Ethylbenzene	700	810	860	470	470	200	250	1200	980	1400	2200	2400	1900			
Hexachlorobutadiene	NA	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
Iodomethane	NA	20 U	20 U	17 U	17 U	13 U	25 U	-	-	-	-	-	-	-	-	-
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	510	560	21	22	130	180	4000	2300	3600	6600	5700	2900			
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride (Dichloromethane)	5	20 U	20 U	10 U	10 U	5 U	10 U	-	-	-	-	-	-	-	-	-
Naphthalene	160	190	200	130	130	-	-									

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	MTCA Method A	YMW-3									
		YMW-3-20170816-GW 08/16/2017 1708-229-13	YMW-3-20181108-GW 11/08/2018 1811-095-04	YMW-3-DUP-20181108-GW 11/08/2018 1811-095-05	YMW-3-20190508-GW 05/08/2019 1905-124-05	YMW3-20191106-GW 11/06/2019 1911-071-04	YMW-3-20200505-GW 05/05/2020 2005-036-08	YMW-3-20201103-GW 11/03/2020 2011-031-06	YMW3-20210504-GW 05/04/2021 2105-024-07	YMW-3-20211102-GW 11/02/2021 2111-047-09	YMW3-W-15-20231011 10/11/2023 2310-129-14
Volatile Organic Compounds (ug/L)											
1,1,2-Tetrachloroethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1,1-Trichloroethane	200	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1,2,2-Tetrachloroethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1,2-Trichloroethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1-Dichloroethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1-Dichloroethene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,1-Dichloropropene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,2,3-Trichlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	50 U
1,2,3-Trichloropropane	NA	-	-	-	-	-	-	10 U	2 U	13 U	10 U
1,2,4-Trichlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,2,4-Trimethylbenzene	NA	-	-	-	-	-	-	960	820	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	-	-	-	-	-	-	50 U	10 U	50 U	50 U
1,2-Dibromoethane (Ethylene Dibromide)	0.01	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,2-Dichlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,2-Dichloroethane	5	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,2-Dichloropropane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,3,5-Trimethylbenzene	NA	-	-	-	-	-	-	200	160	-	-
1,3-Dichlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,3-Dichloropropane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
1,4-Dichlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
2,2-Dichloropropane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	NA	-	-	-	-	-	-	250 U	50 U	-	-
2-Chloroethyl vinyl ether	NA	-	-	-	-	-	-	50 U	10 U	50 U	-
2-Chlorotoluene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
2-Hexanone (Methyl Butyl Ketone)	NA	-	-	-	-	-	-	100 U	20 U	-	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	-	-	-	-	-	10 U	7.5	-	-
4-Chlorotoluene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	-	-	-	-	-	-	100 U	20 U	-	-
Acetone	NA	-	-	-	-	-	-	250 U	50 U	-	-
Benzene	5	810	75	80	130	42	120	55	24	25	27
Bromobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Bromodichloromethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Bromoform	NA	-	-	-	-	-	-	50 U	10 U	50 U	50 U
Bromomethane (Methyl Bromide)	NA	-	-	-	-	-	-	15 U	4.6 U	10 U	120 U
Carbon disulfide	NA	-	-	-	-	-	-	10 U	2.6 U	-	-
Carbon tetrachloride	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Chlorobenzene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Chlorobromomethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Chloroethane	NA	-	-	-	-	-	-	50 U	10 U	50 U	50 U
Chloroform (Trichloromethane)	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Chloromethane (Methyl Chloride)	NA	-	-	-	-	-	-	70 U	10 U	50 U	50 U
cis-1,2-Dichloroethene	NA	-	-	-	-	-	-	10 U	6.3	10 U	10 U
cis-1,3-Dichloropropene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Cymene (p-Isopropyltoluene)	NA	-	-	-	-	-	-	10 U	5.2	-	-
Dibromochloromethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Dibromomethane	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	NA	-	-	-	-	-	-	13 U	2 U	13 U	10 U
Ethylbenzene	700	1800	1800	1900	1100	1300	1500	1200	1300	2600	1800
Hexachlorobutadiene	NA	-	-	-	-	-	-	50 U	10 U	50 U	50 U
Iodomethane	NA	-	-	-	-	-	-	75 U	46 U	50 U	130 U
Isopropylbenzene (Cumene)	NA	-	-	-	-	-	-	52	42	-	-
m,p-Xylenes	NA	5600	4400	4600	2400	3100	3700	2600	2100	2700	3900
Methyl Tert Butyl Ether (MTBE)	20	-	-	-	-	-	-	10 U	2 U	-	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	-	50 U	10 U	50 U	50 U
Naphthalene	160	-	-	-	-	-	-	770 Y	580	460	1000
n-Butylbenzene	NA	-	-	-	-	-	-	92 Y	26	-	-
n-Propylbenzene	NA	-	-	-	-	-	-	160	110	-	-
o-Xylene	NA	1700	1400	1400	350	340	340	180	160	140	1300
Styrene	NA	-	-	-	-	-	-	11	2 U	-	-
tert-Butylbenzene	NA	-	-	-	-	-	-	10 U	2 U	-	-
Tetrachloroethene	5	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Toluene	1000	1300	450	470	140	130	91	89	110	110	460
trans-1,2-Dichloroethene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
trans-1,3-Dichloropropene	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Trichloroethene	5	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Trichlorofluoromethane (CFC-11)	NA	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Vinyl acetate	NA	-	-	-	-	-	-	50 U	10 U	-	-
Vinyl chloride	0.2	-	-	-	-	-	-	10 U	2 U	10 U	10 U
Xylene (Total)	1000	7300	5800	6000	2750	3440	4040	2780	2260	2840	5200

TABLE 7
SUMMARY OF GROUNDWATER VOCs QUALITY DATA
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

ABBREVIATIONS AND NOTES:

*Total xylenes is the sum of m,p-xylene and o-xylene. Non-detect results are summed at one-half the detection limit. When both results are non-detect, the higher detection limit is used.

-: Not Analyzed

bgs: below ground surface

ft: feet

MTCA: Model Toxics Control Act

NA: No Action level established

U: not detected, value is the laboratory reporting limit

ug/L: micrograms per liter

VOCs: Volatile Organic Compounds

Y: result is an estimate

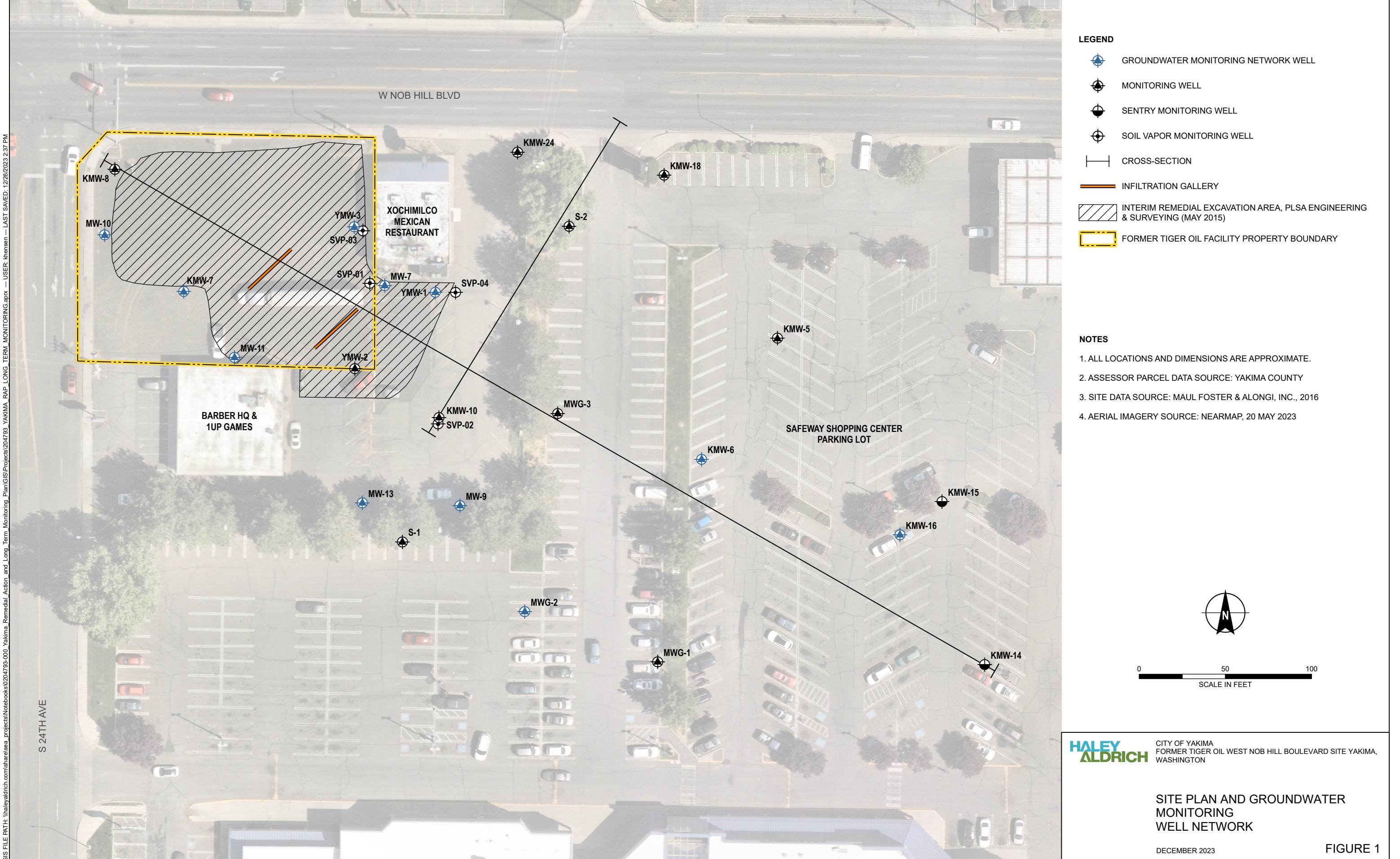
Bold values indicate a detected concentration.

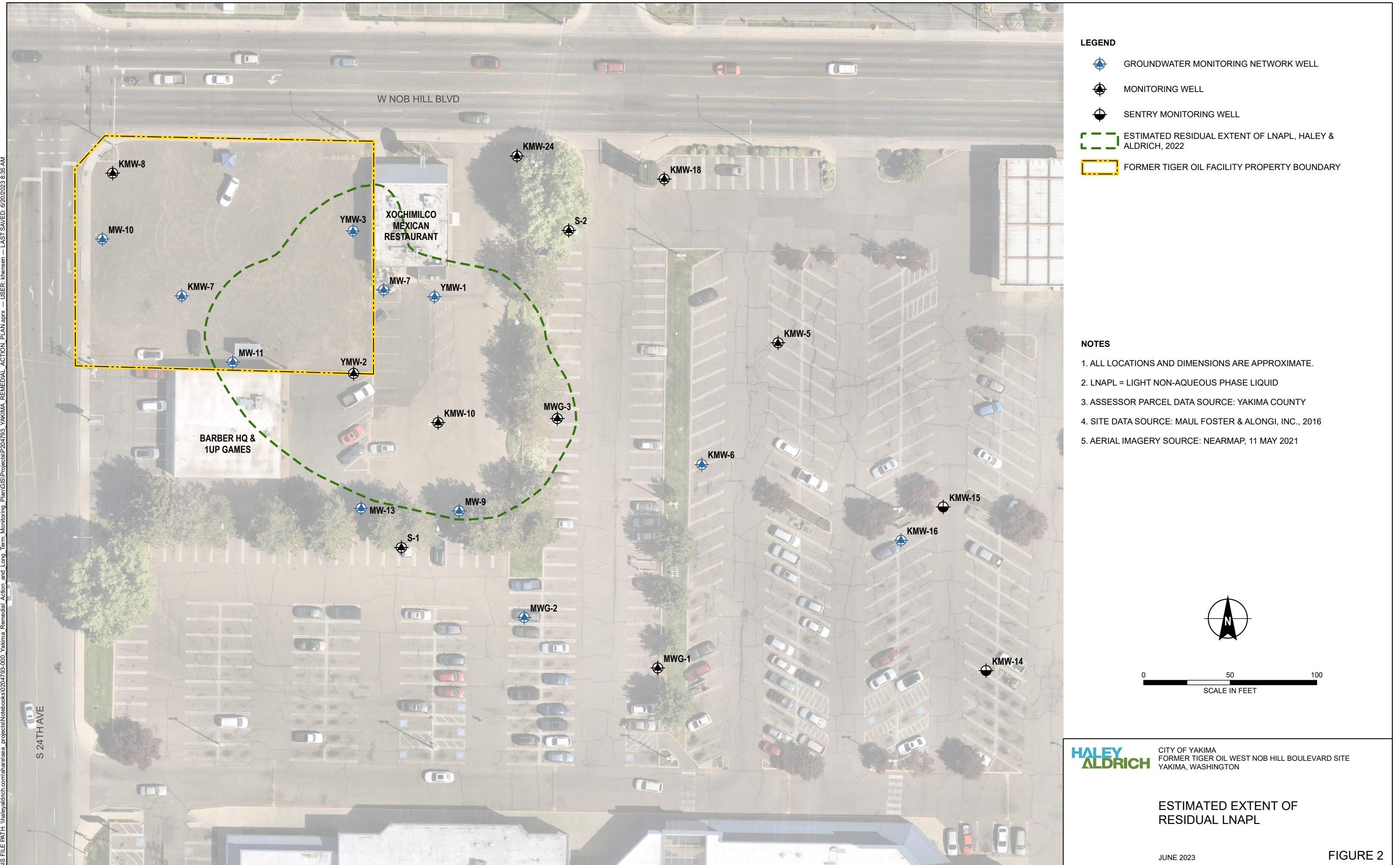
Blue shading indicates a detected analyte concentration exceeding a MTCA Method A Cleanup Level.

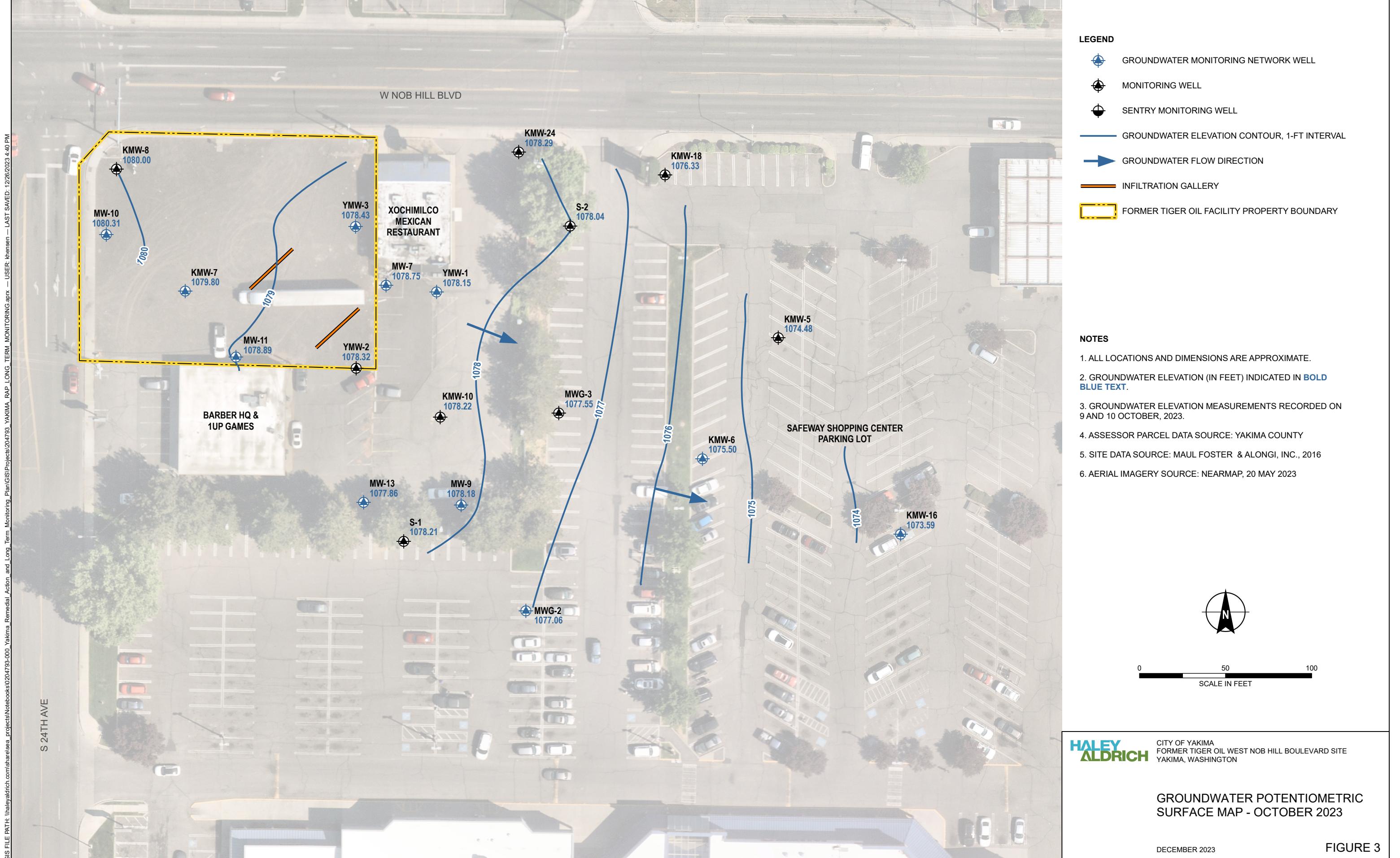
TABLE 8
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
YAKIMA RA & LT MONITORING (TIGER OIL)
YAKIMA, WASHINGTON

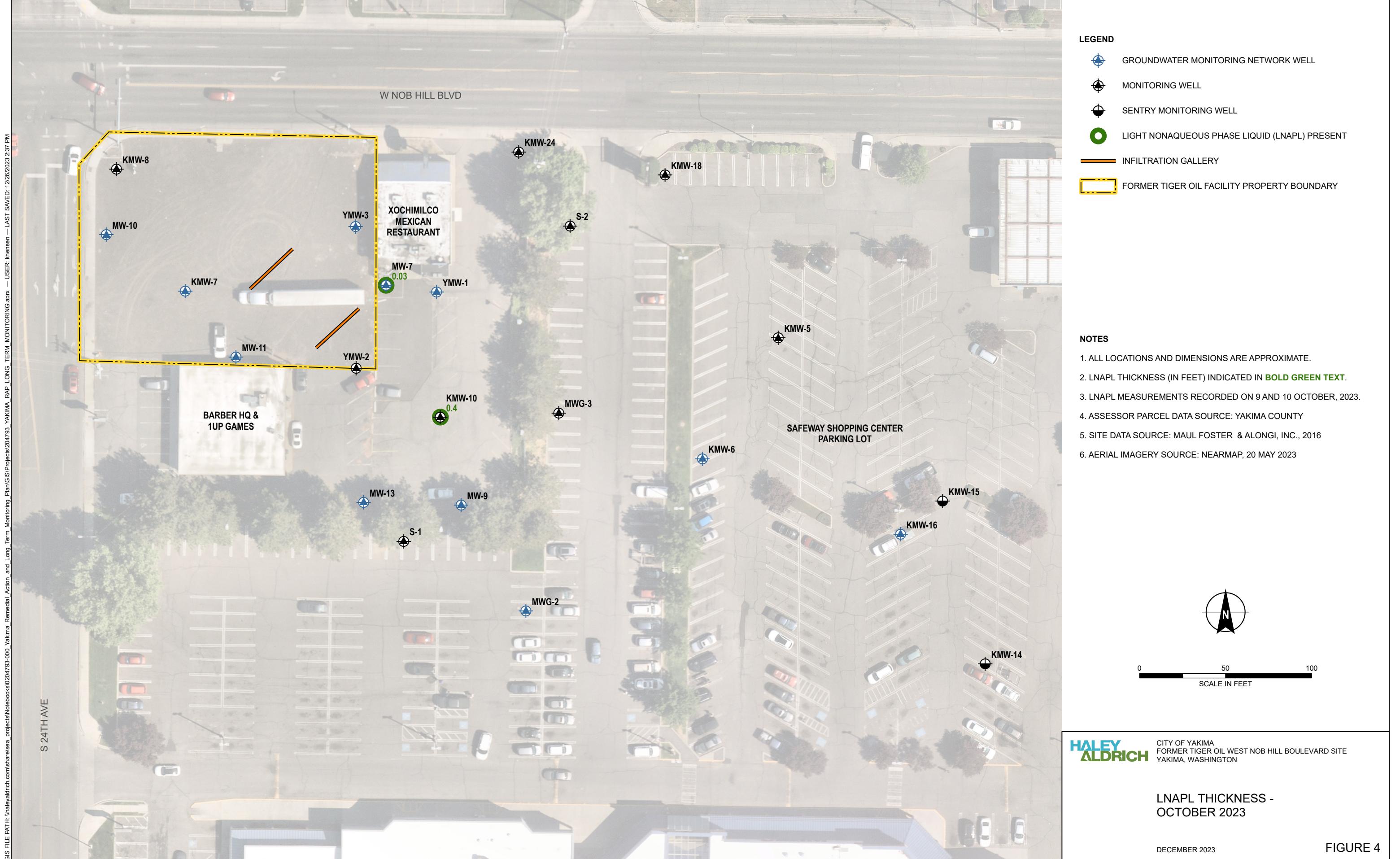
Sample Location	Sample Depth	Sample Date	Sample Time	Carbon Dioxide, Field	Methane	Oxygen (O2)	Comment
				%	%	%	
SVP-01(a)	SVP-01-Shallow	12/06/2018	11:06:00	1.5	0.8	20	Began purge at 11:01.
		05/08/2019	16:08:00	2.4	0	15.2	Began purge at 15:59.
		11/06/2019	12:17:00	1	0	17.7	Began purge at 12:05.
		05/05/2020	17:03:00	1.1	0	18.8	Began purge at 16:55.
		11/03/2020	13:55:00	0.7	0	20.8	Began purge at 13:43.
		05/04/2021	15:54:00	1.4	0	18.6	Began purge at 15:44.
		11/03/2021	09:40:00	1.4	0	19.3	Began purge at 09:29.
	SVP-01-Medium	10/09/2023	17:34:00	1.3	1	18.3	Began purge at 17:28
		12/06/2018	11:00:00	2.8	0.8	18	Began purge at 10:53.
		05/08/2019	16:16:00	3	0	13.5	Began purge at 16:09.
		05/05/2020	17:16:00	2.4	0	16.9	Began purge at 17:08.
		11/03/2020	14:11:00	2.4	0	19	Began purge at 13:59.
		11/06/2020	12:29:00	2	0	17.1	Began purge at 12:18.
		05/04/2021	16:06:00	2.9	0	17	Began purge at 15:56.
SVP-02(b)	SVP-02-Shallow	11/03/2021	09:51:00	3	0	17	Began purge at 09:40.
		10/09/2023	17:41:00	4.1	1	15.5	Began purge at 17:35
		12/06/2018	11:12:00	3	0.8	18.3	Began purge at 11:09.
		05/08/2019	16:23:00	3.1	0	13	Began purge at 16:17.
		11/06/2019	12:41:00	2.6	0	16.4	Began purge at 12:30.
		05/05/2020	17:26:00	2.8	0	16.7	Began purge at 17:18.
		11/03/2020	14:24:00	2.6	0	19	Began purge at 14:12.
	SVP-02-Medium	05/04/2021	16:17:00	3.1	0	17	Began purge at 16:07.
		11/03/2021	10:03:00	4	0	15.7	Began purge at 09:52.
		10/09/2023	17:47:00	6.3	1	13	Began purge at 17:42
SVP-03(c)	SVP-03-Shallow	12/05/2018	16:05:00	7	1	12.1	Began purge at 15:59.
		05/08/2019	15:30:00	6.5	0.1	9.6	Began purge at 15:24.
		11/06/2019	13:53:00	2.4	0	16.2	Began purge at 13:40.
		05/05/2020	16:18:00	8	0	6.8	Began purge at 16:10.
		11/03/2020	15:30:00	4	0	15.8	Began purge at 15:15.
		05/04/2021	17:05:00	6.5	0	10.2	Began purge at 16:55.
		11/03/2021	08:08:00	5.7	0	12.6	Began purge at 07:58.
	SVP-03-Medium	10/09/2023	16:54:00	7	1	11.3	Began purge at 16:44
		12/05/2018	16:09:00	10.6	0.9	6.5	Began purge at 16:05.
		05/08/2019	15:39:00	7.5	0	8.9	Began purge at 15:31.
		11/06/2019	14:07:00	6.7	0	10.6	Began purge at 13:55.
		05/05/2020	16:28:00	8.6	0	6.3	Began purge at 16:20.
		11/03/2020	15:40:00	8.5	0	10	Began purge at 15:31.
		05/04/2021	17:12:00	7.6	0	8.6	Began purge at 17:06.
SVP-04(d)	SVP-04-Shallow	11/03/2021	08:19:00	9	0	8.7	Began purge at 08:08.
		10/09/2023	16:59:00	15.5	1	3.9	Began purge at 16:56
		12/05/2018	16:12:00	15.7	1.3	11	Began purge at 16:10.
		05/08/2019	15:48:00	13.6	0	0	Began purge at 15:40.
		11/06/2019	14:17:00	15.5	0.1	0	Began purge at 14:08.
		05/05/2020	16:38:00	13.7	0	0	Began purge at 16:30.
		11/03/2020	15:50:00	17	0.1	0	Began purge at 15:41.
	SVP-03-Deep	05/04/2021	17:23:00	12.3	0	1.3	Began purge at 17:13.
		11/03/2021	08:30:00	15.8	0	0.2	Began purge at 08:19.
		10/09/2023	17:05:00	23.8	1	0	Began purge at 17:00
SVP-04(d)	SVP-04-Medium	12/05/2018	16:30:00	0.5	0.9	17.2	Began purge at 16:26.
		11/06/2019	11:33:00	0.2	0	18.3	Began purge at 11:23.
		05/05/2020	17:43:00	0.1	0	20.8	Began purge at 17:35.
		11/03/2020	13:15:00	0.3	0	20.6	Began purge at 13:00.
		05/04/2021	15:19:00	0.1	0	19.7	Began purge at 15:11.
		11/03/2021	10:15:00	0.2	0	20.6	Began purge at 10:04.
		10/09/2023	17:54:00	0.2	1	19.5	Began purge at 17:48
	SVP-04-Deep	12/05/2018	16:32:00	2.1	0.9	17.1	Began purge at 16:30.
		05/08/2019	16:43:00	0.2	0	20.2	Began purge at 16:26.
		05/08/2019	16:43:00	0.8	0	19.3	Began purge at 16:35.
		11/06/2019	11:45:00	1.4	0	16.5	Began purge at 11:34.
		05/05/2020	17:53:00	0.7	0	19.1	Began purge at 17:45.
		11/03/2020	13:26:00	1.2	0	19.3	Began purge at 13:16.
		05/04/2021	15:30:00	1.3	0	17.9	Began purge at 15:20.
SVP-04(d)	SVP-04-Deep	11/03/2021	10:28:00	0.9	0	19.7	Began purge at 10:16.
		10/09/2023	18:00:00	1.2	1	18.2	Began purge at 17:55
		12/05/2018	16:34:00	2.3	0.9	20.6	Began purge at 16:32.
		05/08/2019	16:54:00	2.2	1.6	15.7	Began purge at 16:44.
		11/06/2019	11:58:00	4.3	0	13.1	Began purge at 11:47.
		05/04/2020	15:41:00	2.7	0	15.7	Began purge at 15:31.
		05/05/2020	18:06:00	3	0	16.8	Began purge at 17:58.
	SVP-04-Shallow	11/03/2020	13:39:00	4.9	0.3	17	Began purge at 13:28.
		11/03/2021	10:39:00	2.3	0	16.9	Began purge at 10:28.
		10/09/2023	18:07:00	3.5	2	15.9	Began purge at 18:01
		12/05/2018	16:18:00	0.4	1	16.5	Began purge at 16:14.
		05/08/2019	14:56:00	0.5	0	19	Began purge at 14:45.
		11/06/2019	13:00:00	0.2	0	19.3	Began purge at 12:50.
		05/05/2020	15:27:00	0.4	0	19.3	Began purge at 15:19.
SVP-04(d)	SVP-04-Medium	11/03/2020	14:39:00	0.3	0	21.2	Began purge at 14:27.
		05/04/2021	16:29:00	0.4	0	20.3	Began purge at 16:21.
		11/03/2021	08:59:00	0.3	0	20.6	Began purge at 08:48.
		10/09/2023	17:14:00	0.4	1	19.2	Began purge at 17:09
	SVP-04-Deep	12/05/2018	16:22:00	8.6	0.9	3.4	B

FIGURES









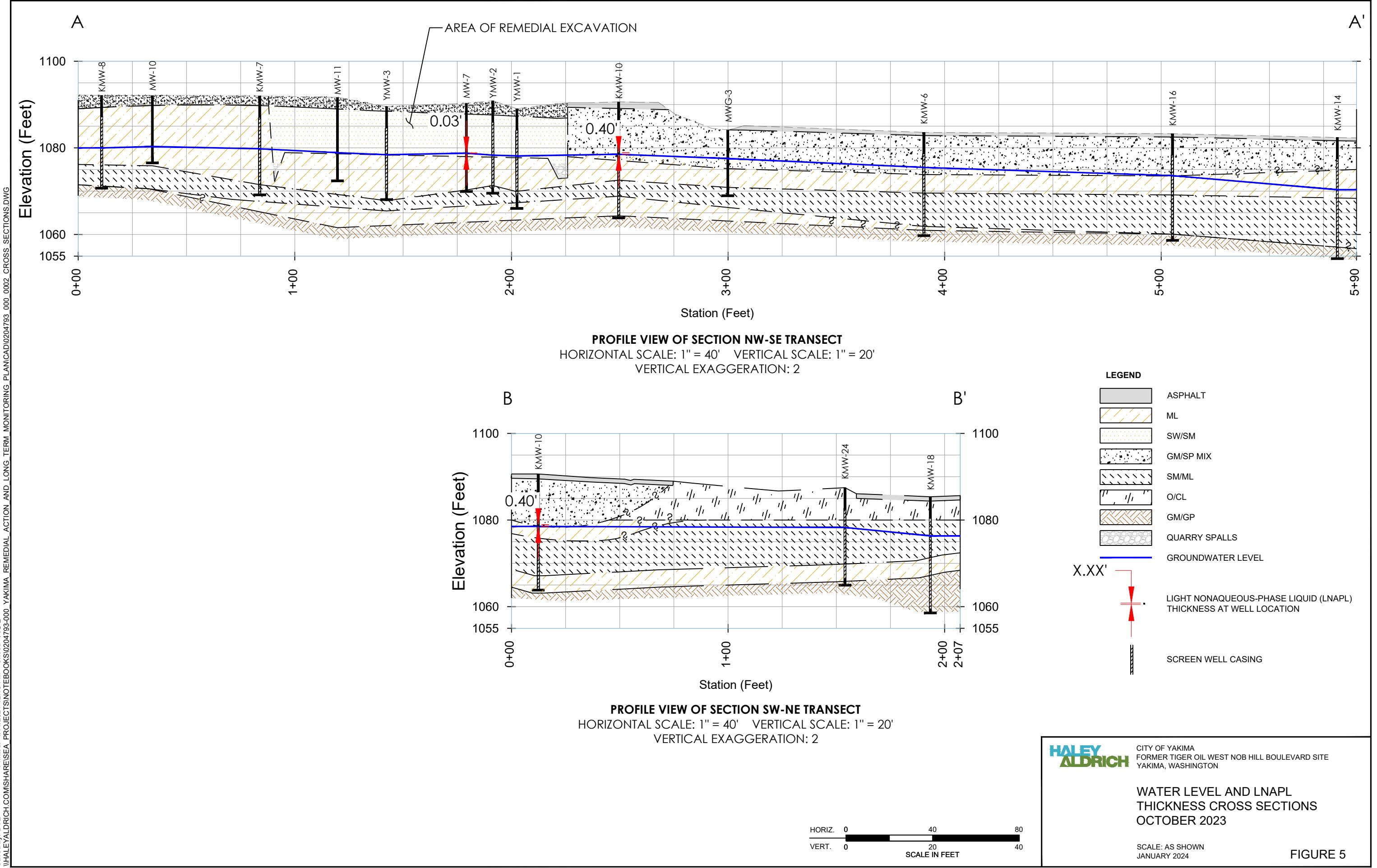
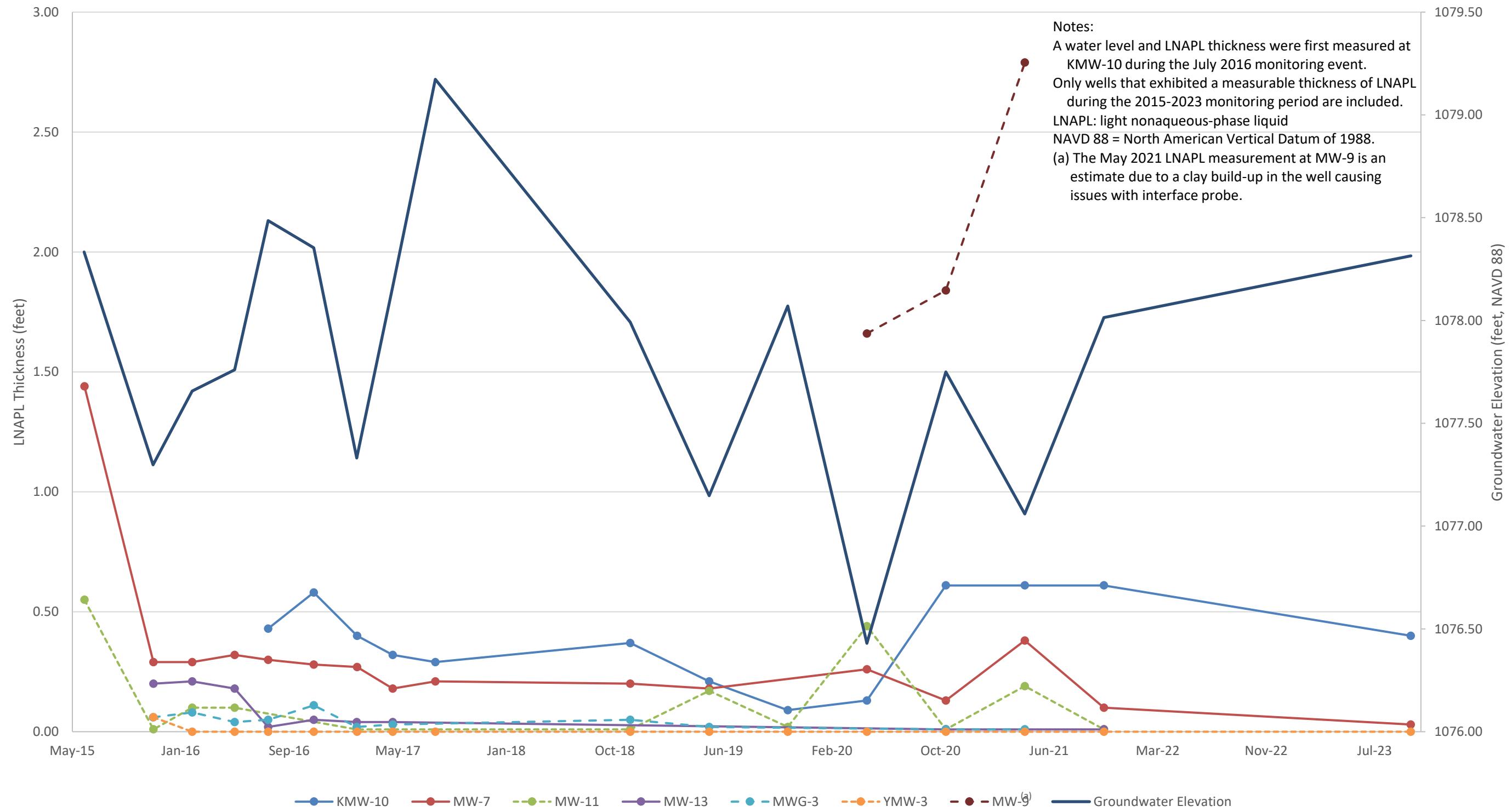
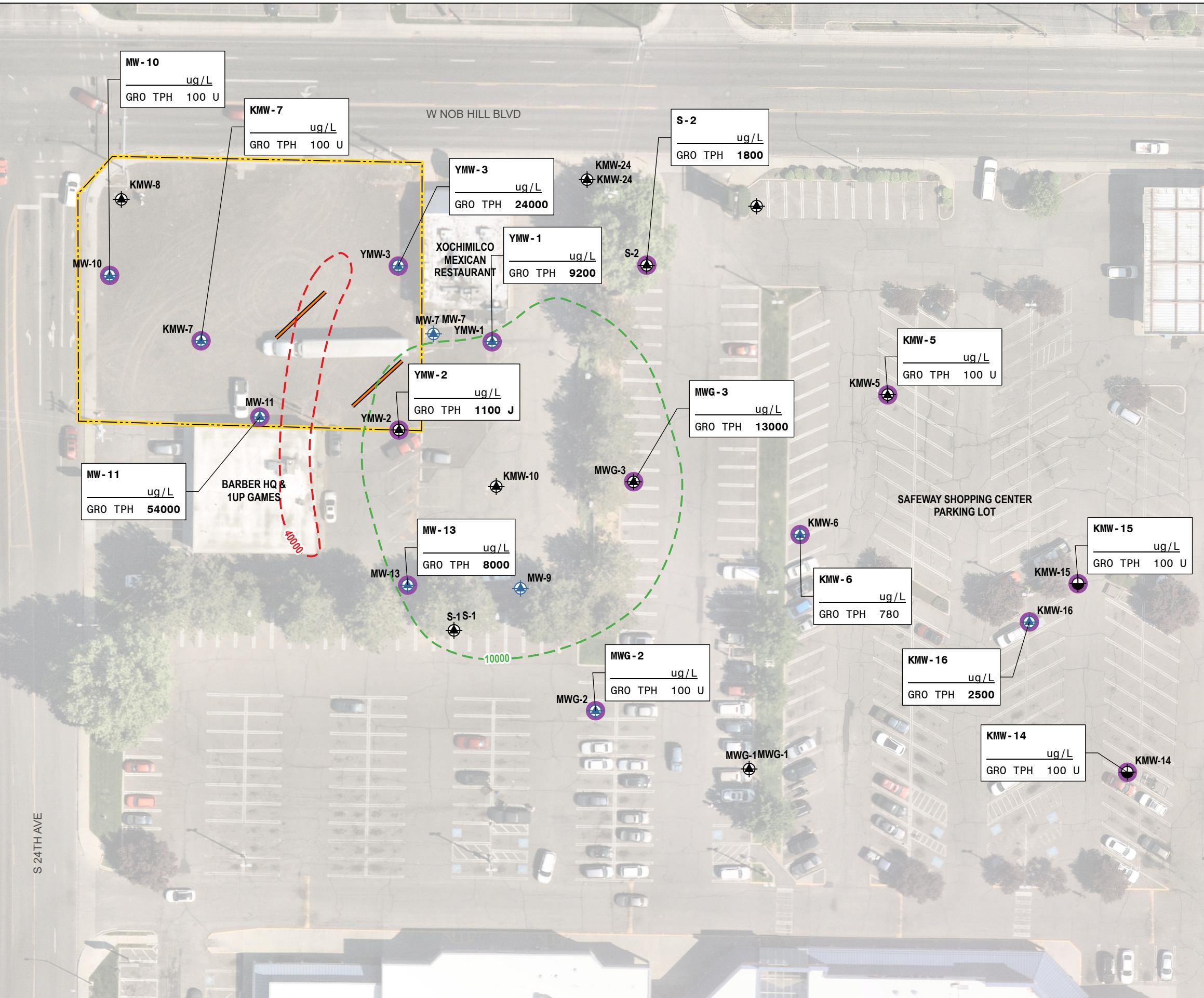


Figure 6
Post-Interim-Remedial-Action LNAPL Thickness
City of Yakima
Former Tiger Oil Site
Yakima, Washington





LEGEND

- GROUNDWATER MONITORING NETWORK WELL
- MONITORING WELL
- SENTRY MONITORING WELL
- GRO TPH SAMPLE COLLECTED
- APPROXIMATE GRO TPH ISOCONCENTRATION CONTOUR, 10,000ug/L
- APPROXIMATE GRO TPH ISOCONCENTRATION CONTOUR, 40,000ug/L
- INFILTRATION GALLERY
- FORMER TIGER OIL FACILITY PROPERTY BOUNDARY

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- DEFINITIONS:
J = ESTIMATED VALUE
U = NON-DETECT, VALUE IS LABORATORY REPORTING LIMIT
MTCA = MODEL TOXICS CONTROL ACT
GRO TPH= GASOLINE- RANGE ORGANICS, TOTAL PETROLEUM HYDROCARBONS
ug/L = MICROGRAMS PER LITER
- VALUES INDICATED IN **BOLD TEXT** EXCEED THE MTCA METHOD A CLEANUP LEVELS
- TPH-GRO MEASUREMENTS RECORDED ON 10 AND 11 OCTOBER, 2023.
- ASSESSOR PARCEL DATA SOURCE: YAKIMA COUNTY
- SITE DATA SOURCE: MAUL FOSTER & ALONGI, INC., 2016
- AERIAL IMAGERY SOURCE: NEARMAP, 20 MAY 2023



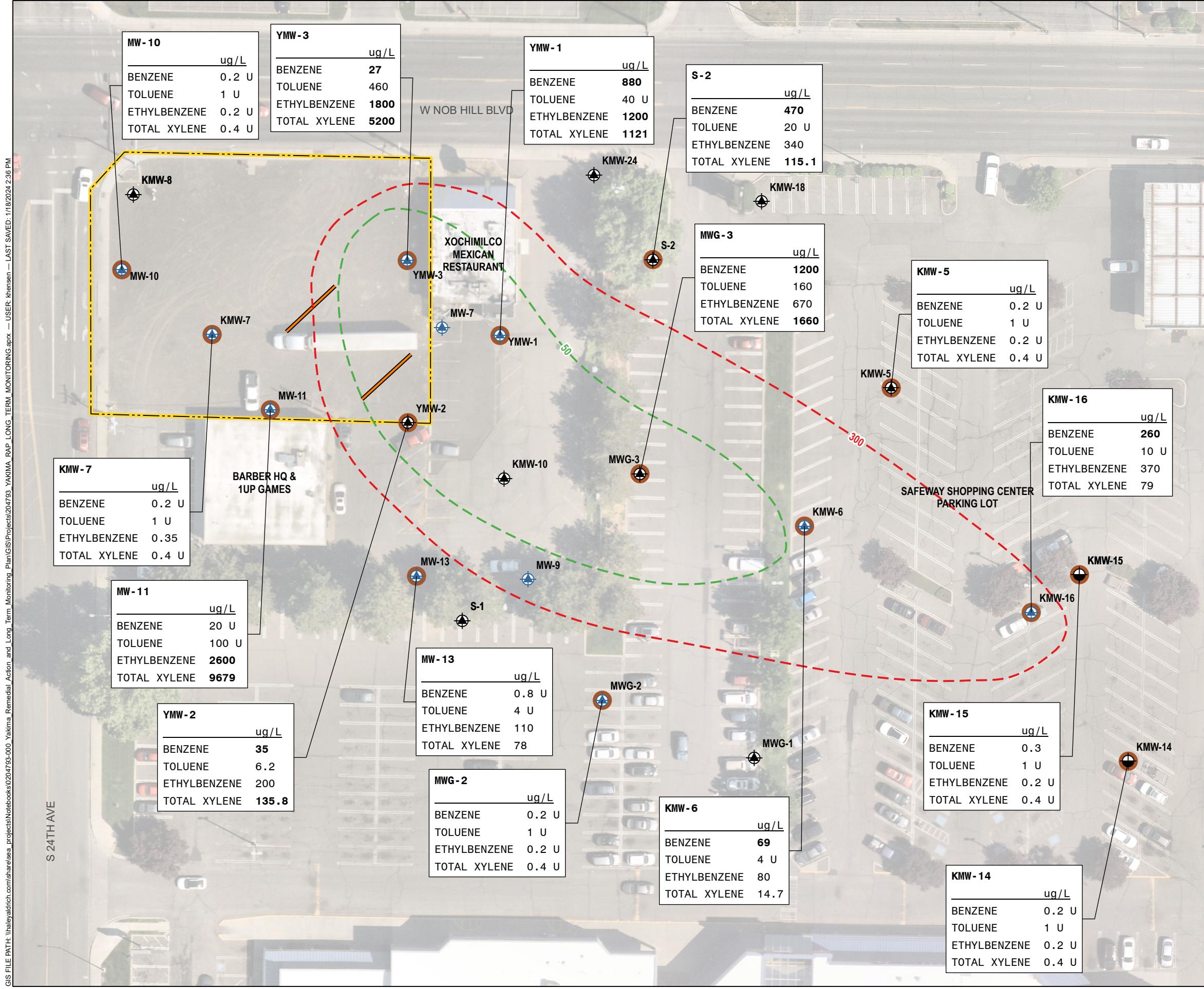
0 50 100
SCALE IN FEET

HALEY ALDRICH
CITY OF YAKIMA
FORMER TIGER OIL WEST NOB HILL BOULEVARD SITE
YAKIMA, WASHINGTON

GASOLINE-RANGE TPH
ISOCONCENTRATION CONTOURS
AND RESULTS - OCTOBER 2023

JANUARY 2024

FIGURE 7



LEGEND

- GROUNDWATER MONITORING NETWORK WELL
- MONITORING WELL
- SENTRY MONITORING WELL
- BTEX SAMPLE COLLECTED
- APPROXIMATE BENZENE ISOCONCENTRATION CONTOUR, 50 ug/L
- APPROXIMATE BENZENE ISOCONCENTRATION CONTOUR, 300 ug/L
- INFILTRATION GALLERY
- FORMER TIGER OIL FACILITY PROPERTY BOUNDARY

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- DEFINITIONS:
BTEX = BENZENE, TOLUENE, ETHYLBENZENE, XYLENE (TOTAL)
U = NON-DETECT, VALUE IS LABORATORY REPORTING LIMIT
MTCA = MODEL TOXICS CONTROL ACT
ug/L = MICROGRAMS PER LITER
- VALUES INDICATED IN **BOLD** TEX ARE ABOVE THE MTCA METHOD A CLEAN UP LEVEL
- BTEX MEASUREMENTS RECORDED ON 10 AND 11 OCTOBER, 2023.
- ASSESSOR PARCEL DATA SOURCE: YAKIMA COUNTY
- SITE DATA SOURCE: MAUL FOSTER & ALONGI, INC., 2016
- AERIAL IMAGERY SOURCE: NEARMAP, 20 MAY 2023



0 50 100
SCALE IN FEET

HALEY
ALDRICH

CITY OF YAKIMA
FORMER TIGER OIL WEST NOB HILL BOULEVARD SITE
YAKIMA, WASHINGTON

BENZENE ISOCONCENTRATION
CONTOURS AND BTEX RESULTS
- OCTOBER 2023

JANUARY 2024

FIGURE 8

Figure 9
 Post-Interim-Remedial-Action Dissolved-Phase Gasoline Concentrations—Core Plume Wells
 City of Yakima
 Former Tiger Oil Site
 Yakima, Washington

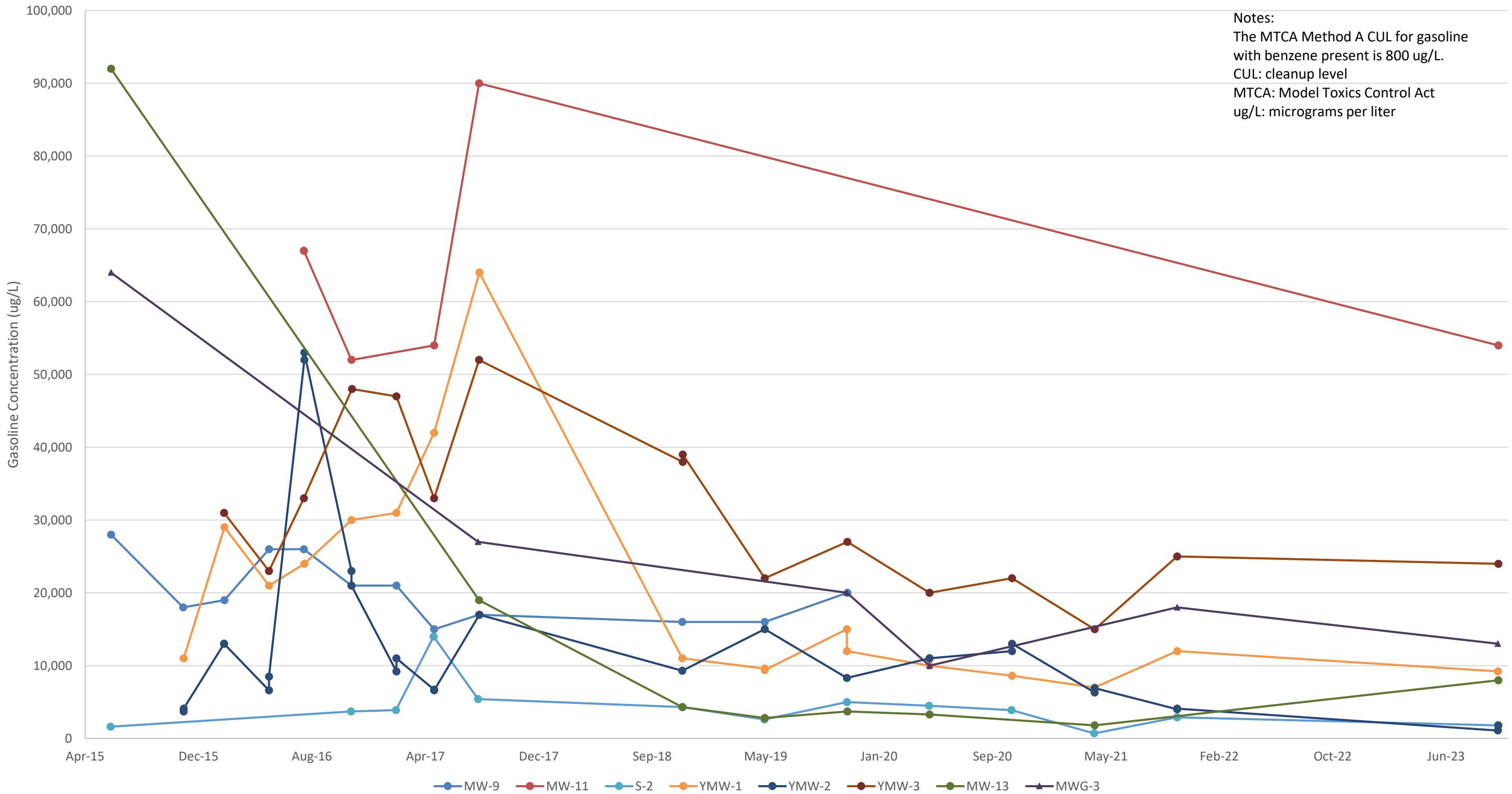


Figure 10
 Post-Interim-Remedial-Action Dissolved-Phase Gasoline Concentrations—Periphery Wells
 City of Yakima
 Former Tiger Oil Site
 Yakima, Washington

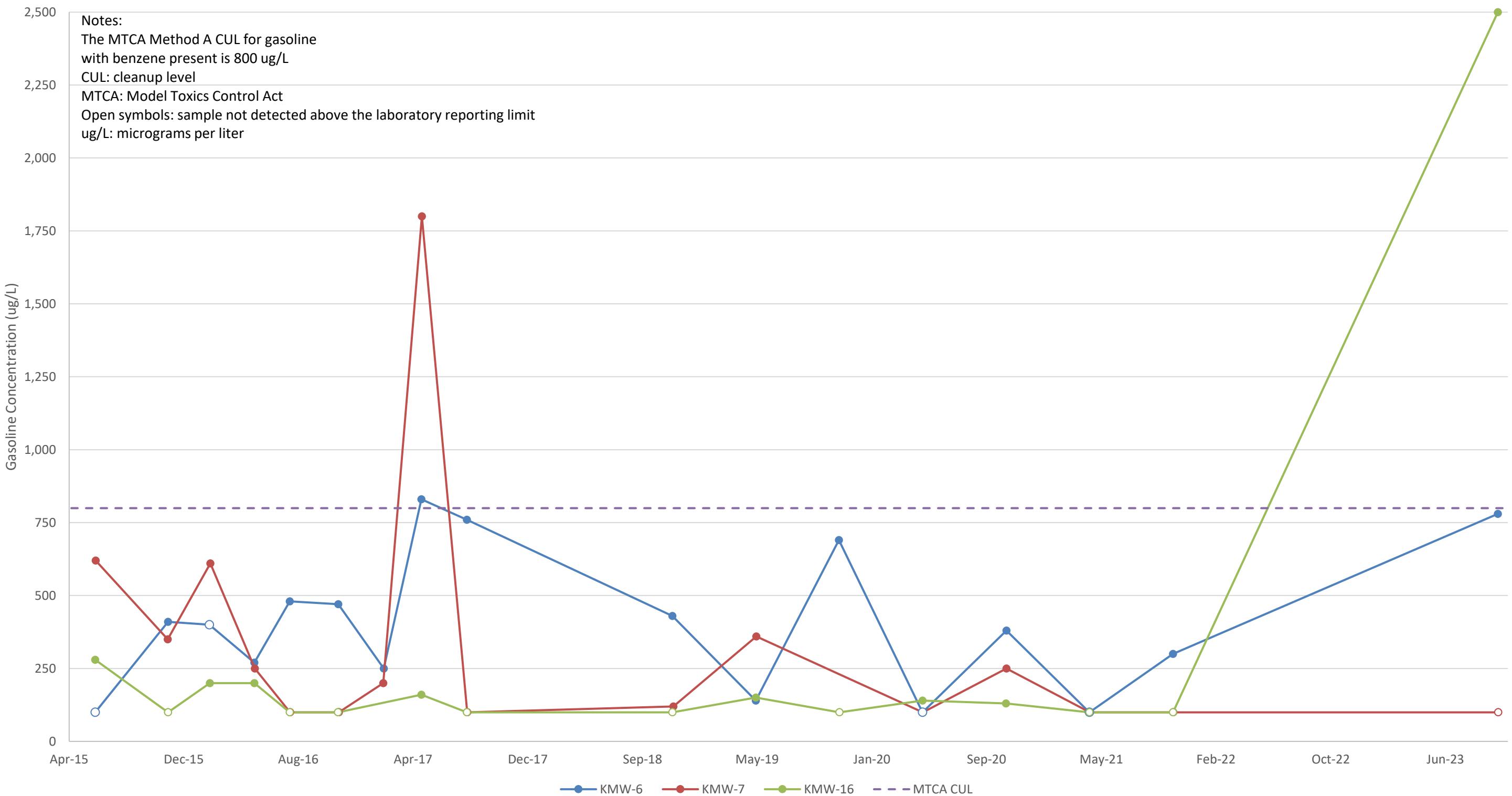


Figure 11
 Post-Interim-Remedial-Action Dissolved-Phase Benzene Concentrations—Core Plume Wells
 City of Yakima
 Former Tiger Oil Site
 Yakima, Washington

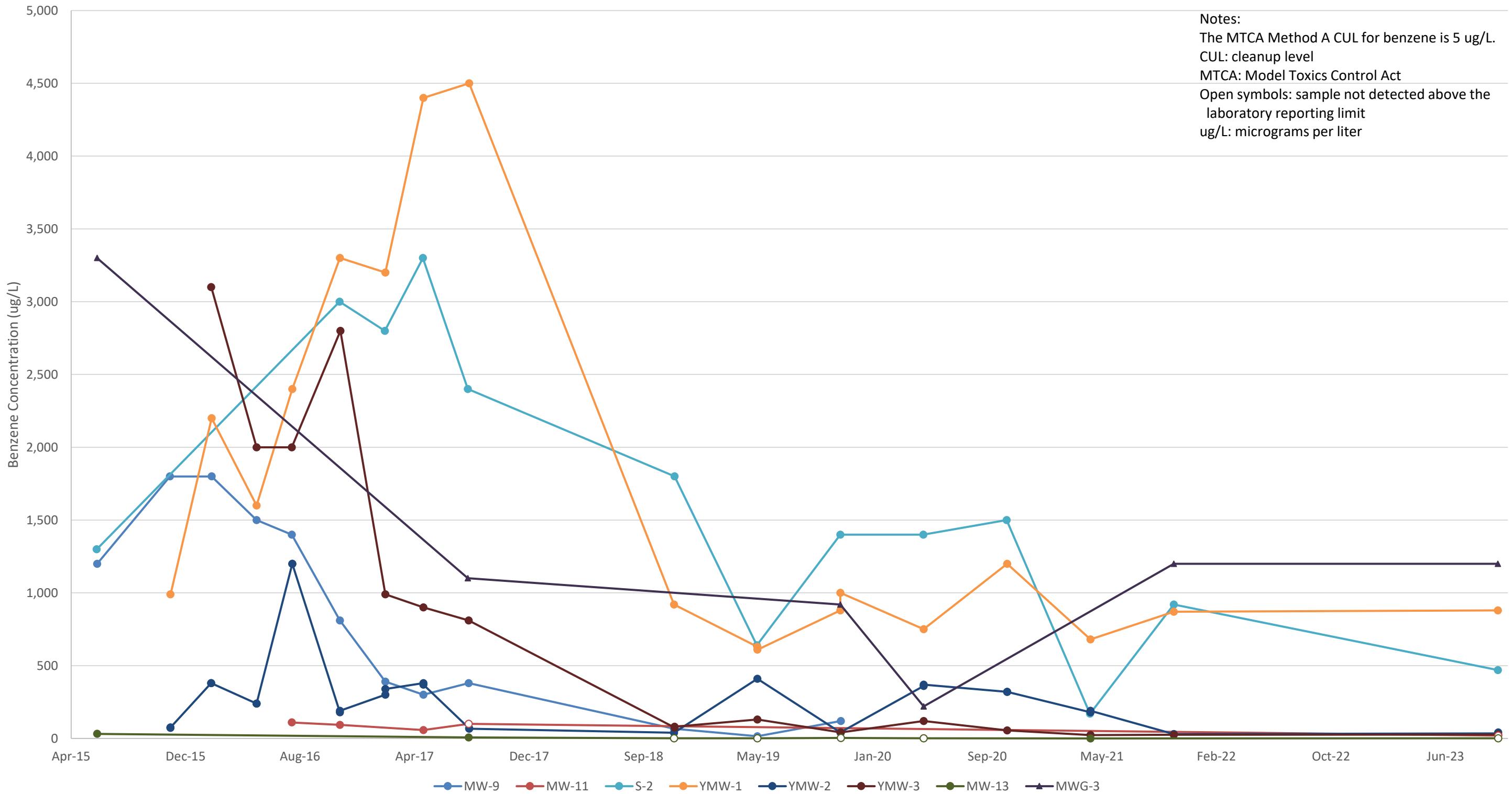
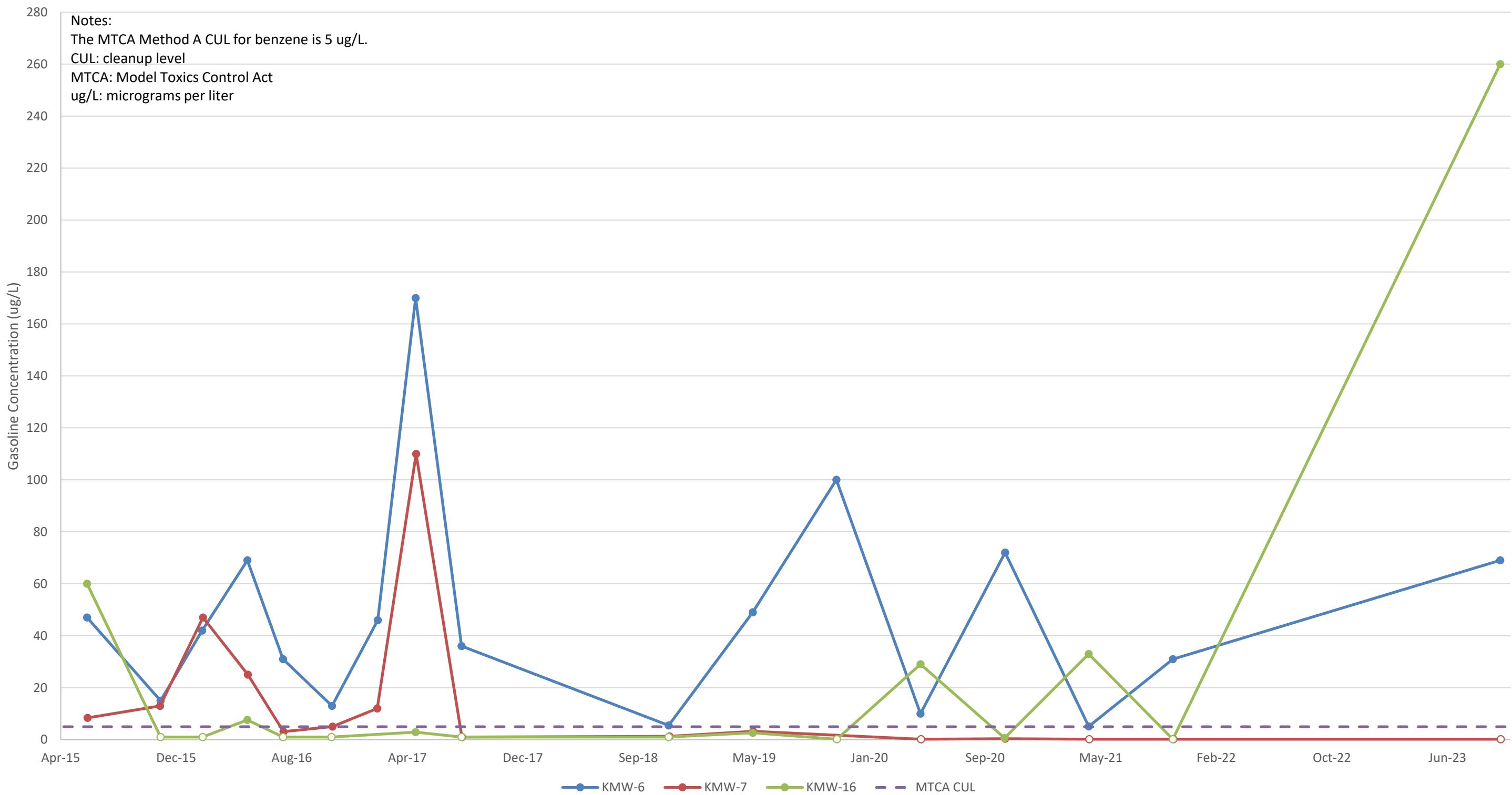
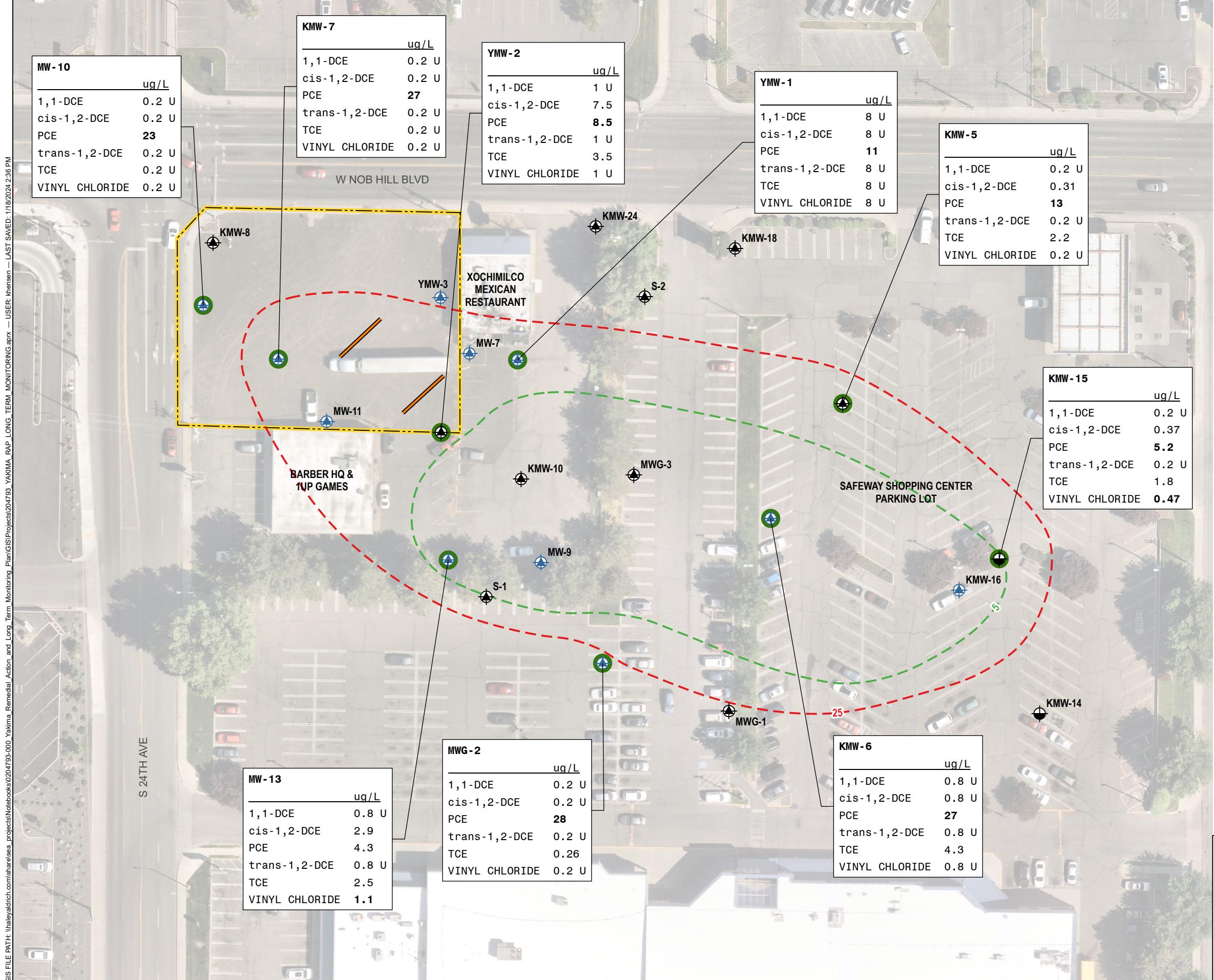


Figure 12
 Post-Interim-Remedial-Action Dissolved-Phase Benzene Concentrations—Periphery Wells
 City of Yakima
 Former Tiger Oil Site
 Yakima, Washington





LEGEND

- GROUNDWATER MONITORING NETWORK WELL
- MONITORING WELL
- SENTRY MONITORING WELL
- HVOC SAMPLE COLLECTED
- - APPROXIMATE PCE ISOCONCENTRATION CONTOUR, 5ug/L
- - APPROXIMATE PCE ISOCONCENTRATION CONTOUR, 25ug/L
- INFILTRATION GALLERY
- FORMER TIGER OIL FACILITY PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DEFINITIONS:
1,1-DCE = 1,1-DICHLORETHENE
cis-1,2-DCE = cis-1,2-DICHLOROETHENE
trans-1,2-DCE = trans-1,2-DICHLOROETHENE
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
HVOC = HIGH VOLATILE ORGANIC COMPOUND
U = NON-DETECT, VALUE IS LABORATORY REPORTING LIMIT
MTCA = MODEL TOXICS CONTROL ACT
ug/L = MICROGRAMS PER LITER
3. VALUES INDICATED IN **BOLD TEX** ARE ABOVE THE MTCA METHOD A CLEAN UP LEVEL
4. HVOC MEASUREMENTS RECORDED ON 10 AND 11 OCTOBER, 2023.
5. ASSESSOR PARCEL DATA SOURCE: YAKIMA COUNTY
6. SITE DATA SOURCE: MAUL FOSTER & ALONGI, INC., 2016
7. AERIAL IMAGERY SOURCE: NEARMAP, 20 MAY 2023



0 60 120
SCALE IN FEET

HALEY ALDRICH
CITY OF YAKIMA
FORMER TIGER OIL WEST NOB HILL BOULEVARD SITE
YAKIMA, WASHINGTON

PCE ISOCONCENTRATION
CONTOURS AND HVOC RESULTS
- OCTOBER 2023

JANUARY 2024

FIGURE 13

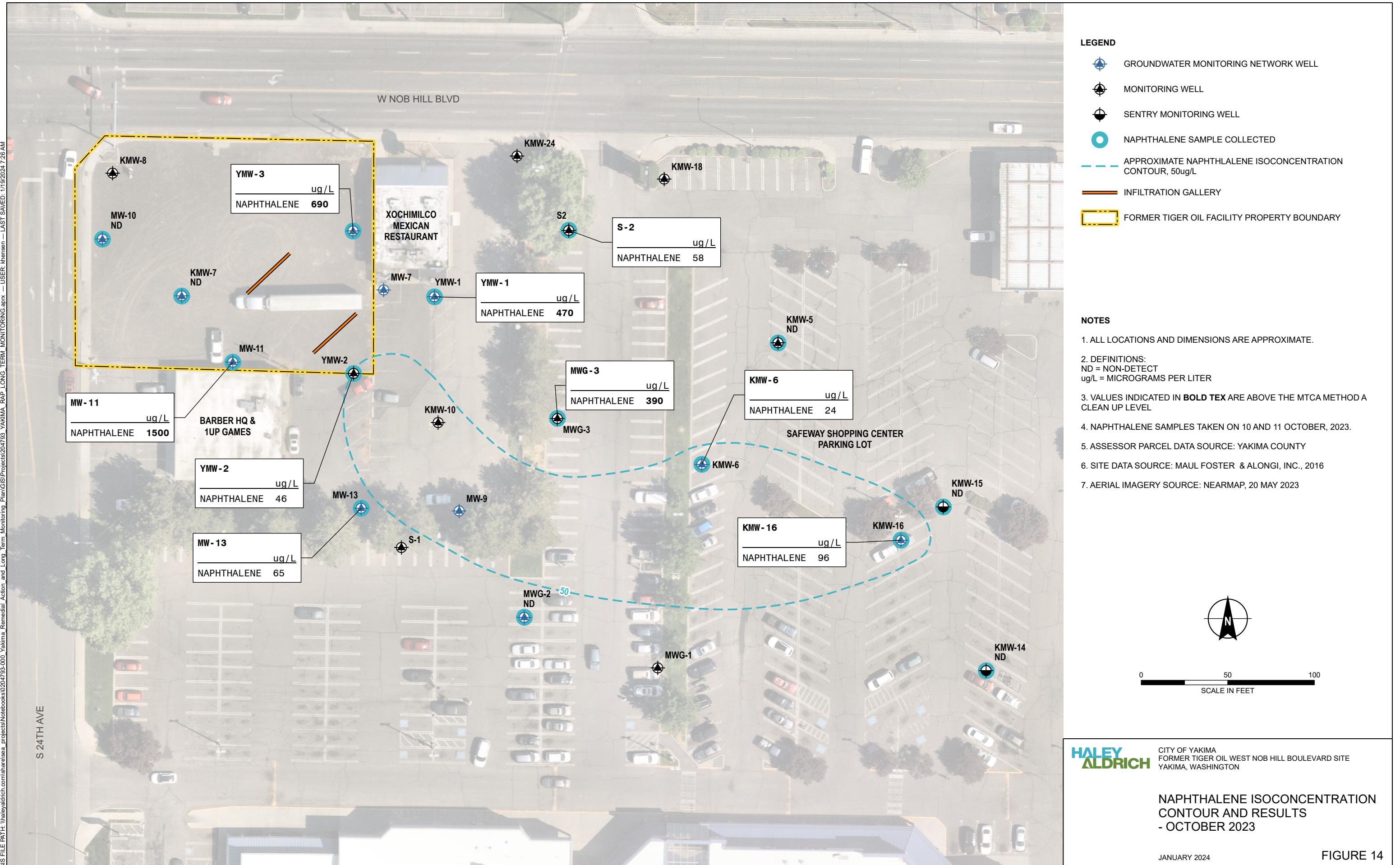


Figure 15
Post-Interim-Remedial-Action Soil Gas Monitoring—Shallow Methane
City of Yakima
Former Tiger Oil Site
Yakima, Washington

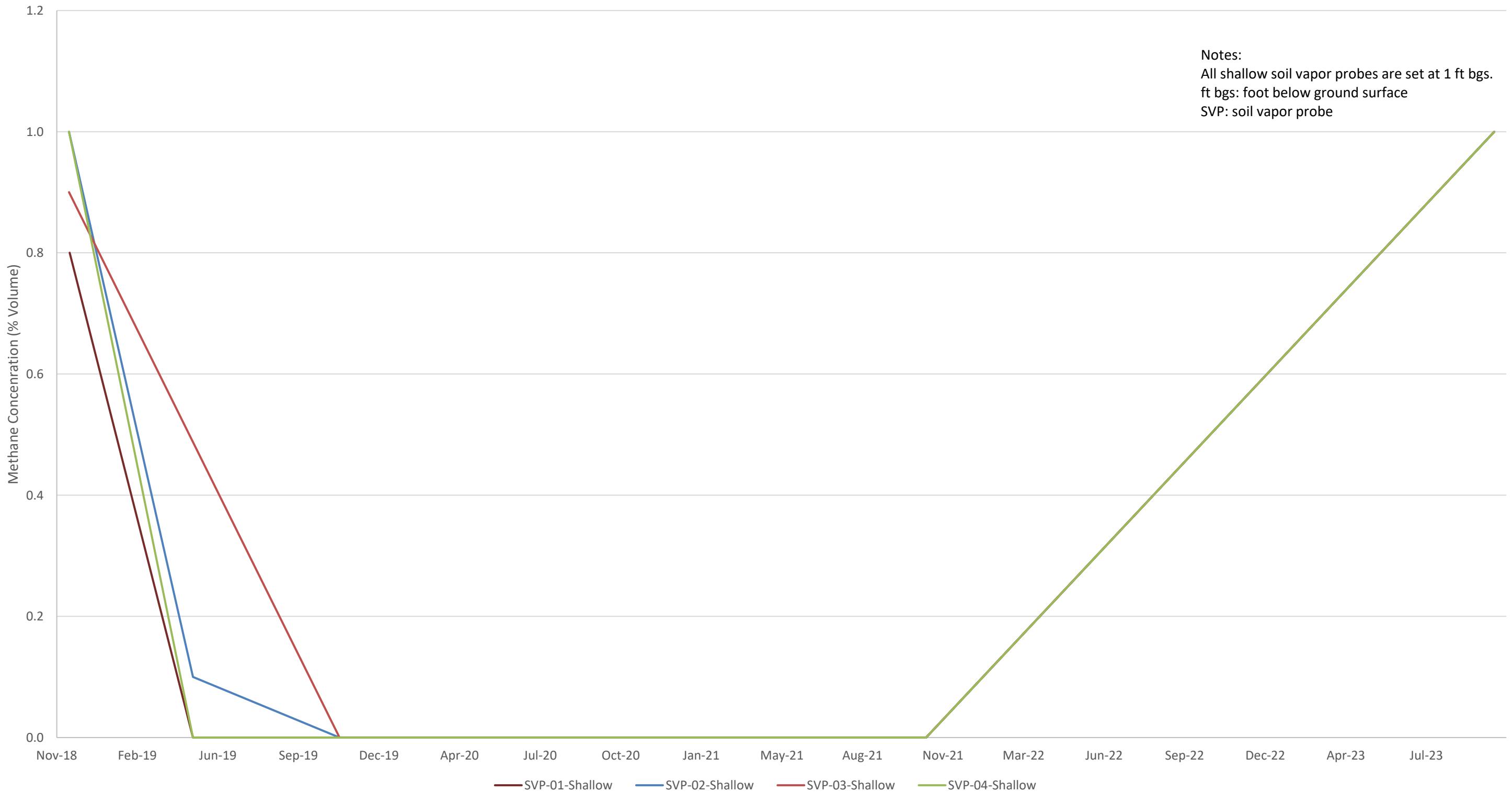


Figure 16
Post-Interim-Remedial-Action Soil Gas Monitoring—Medium Methane
City of Yakima
Former Tiger Oil Site
Yakima, Washington

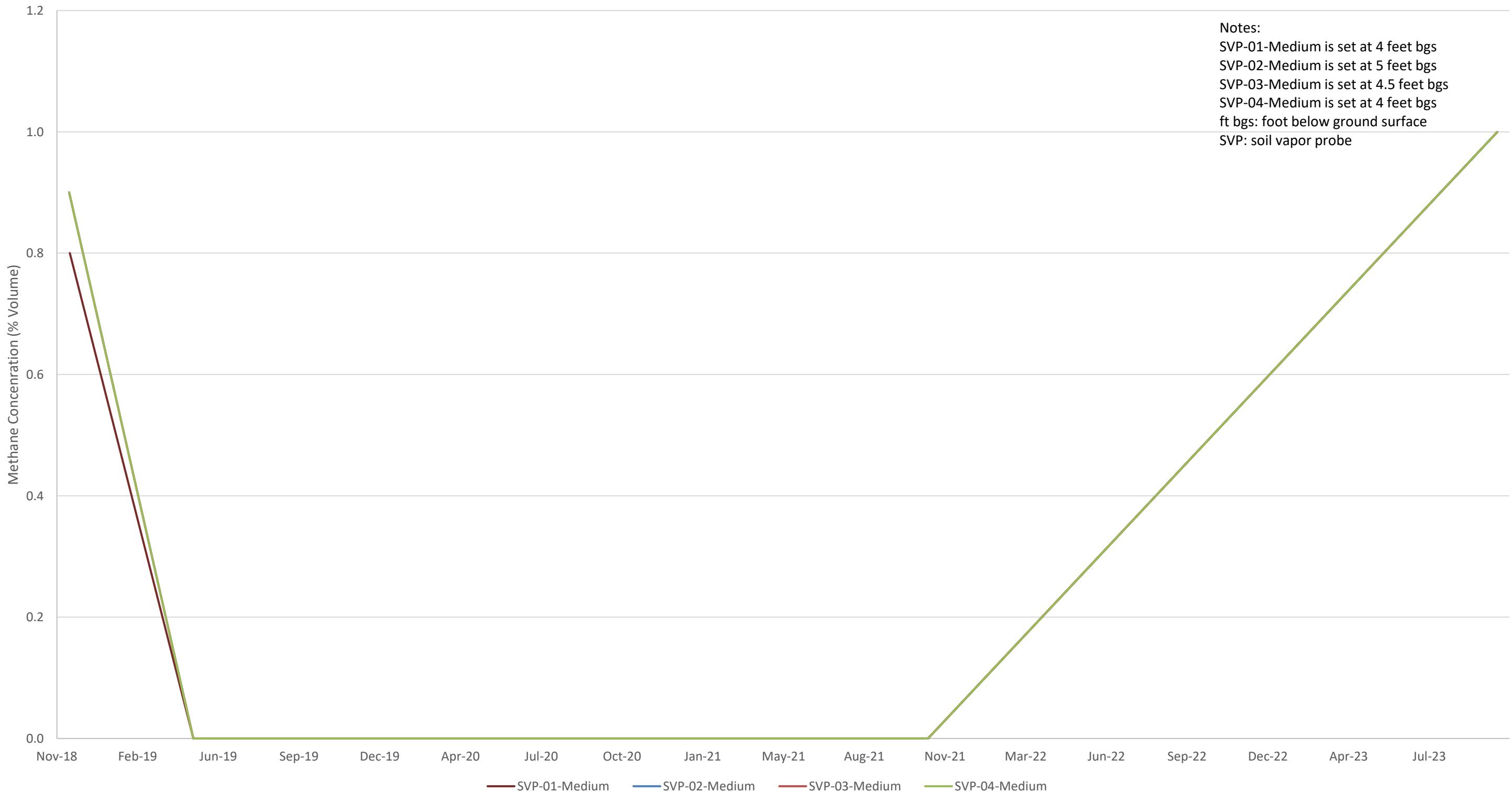


Figure 17
Post-Interim-Remedial-Action Soil Gas Monitoring—Deep Methane
City of Yakima
Former Tiger Oil Site
Yakima, Washington

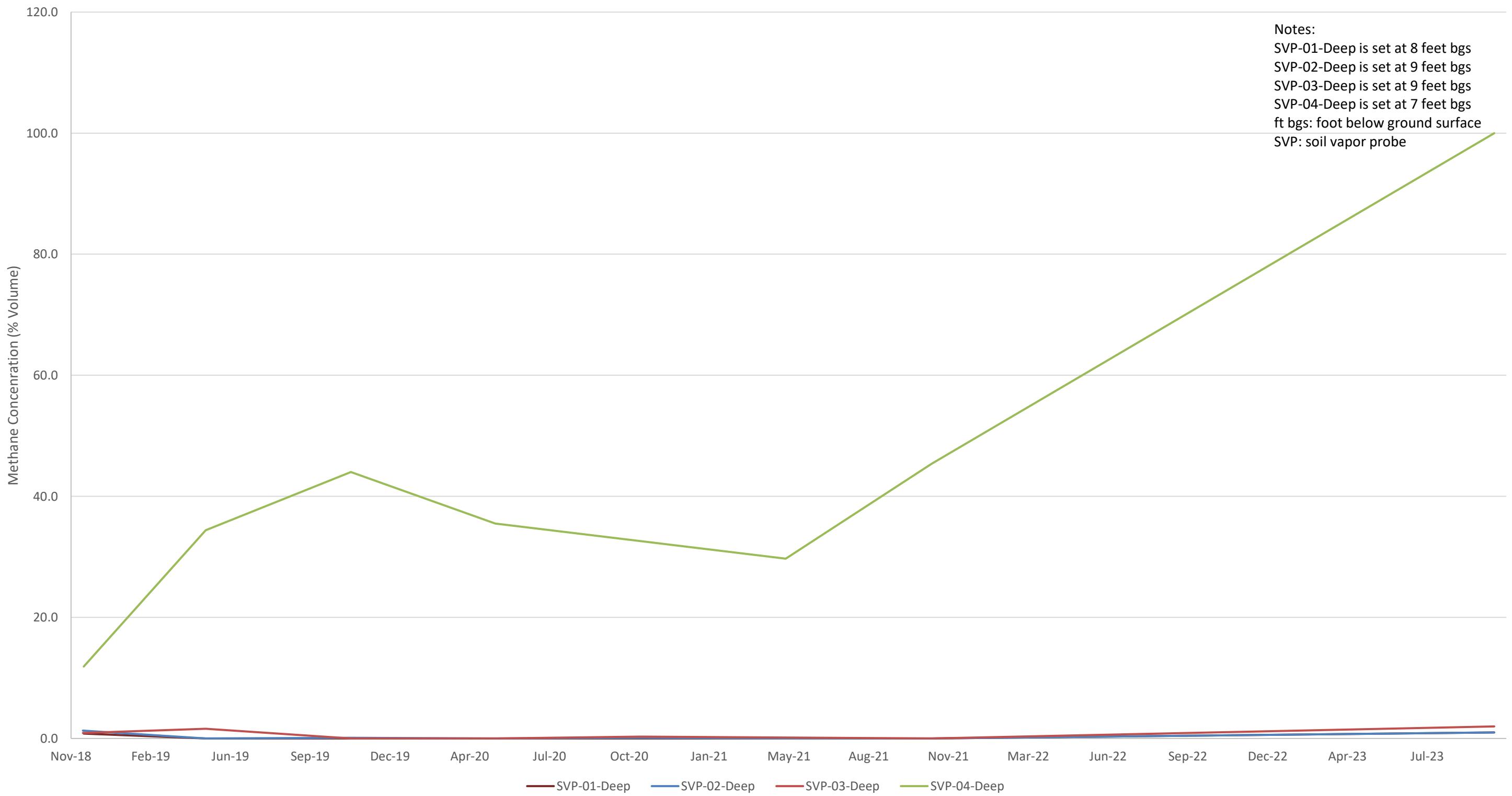
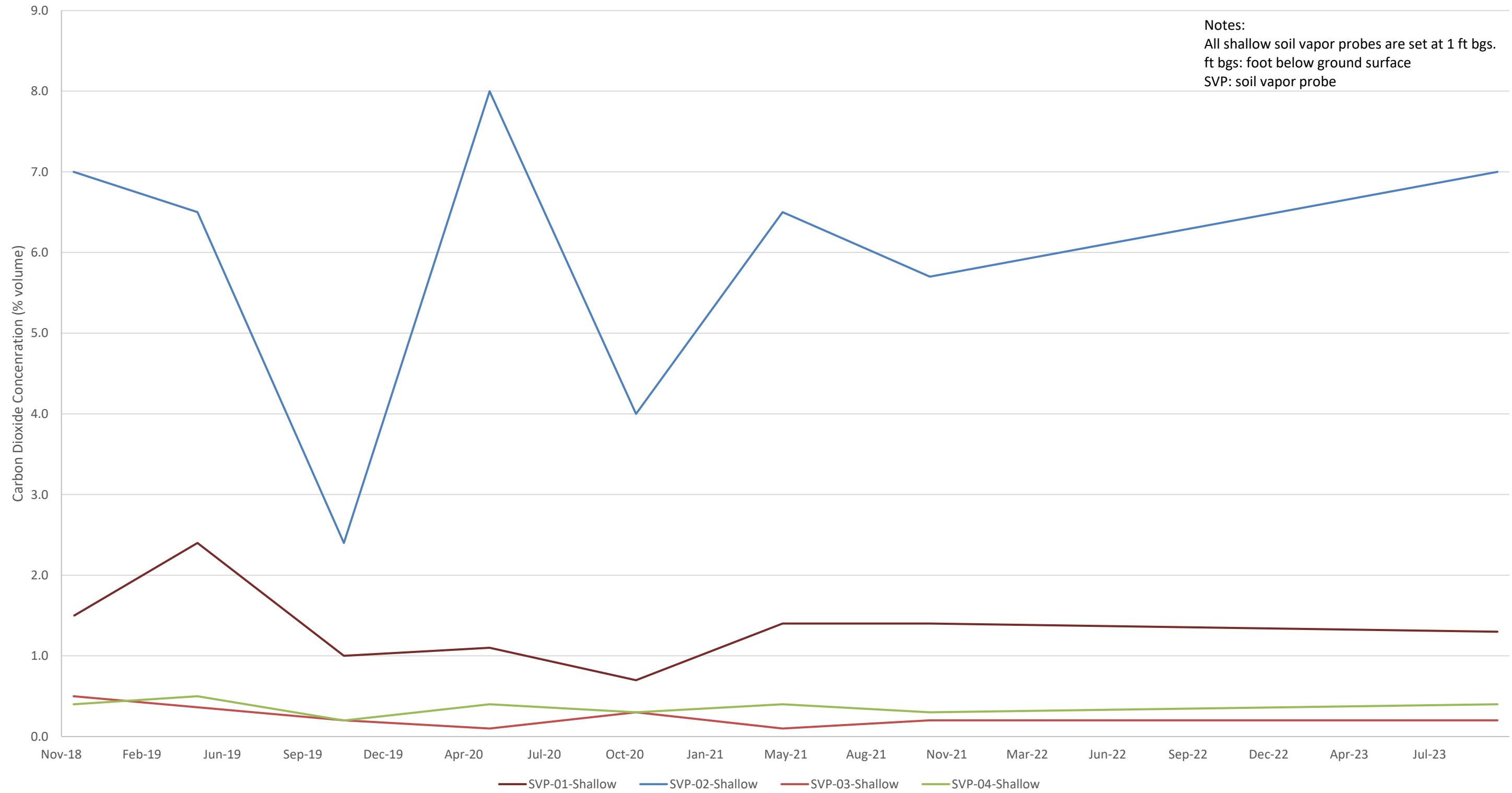


Figure 18
Post-Interim-Remedial-Action Soil Gas Monitoring—Shallow Carbon Dioxide
City of Yakima
Former Tiger Oil Site
Yakima, Washington



APPENDIX A
Field Sampling Data Sheets



WELL SAMPLING FORM

PROJECT Tiger Oil
LOCATION Yakima, WA
CLIENT
CONTRACTOR

H&A FILE NO.
PROJECT MGR. Yen-Ny Van
FIELD REP Zach Stephens
DATE 10/10/23

Page of

Sampling Data:
Well ID: KHW-5 Well Depth: 18.86 ft Initial Depth To Water: 8.34 ft Purging Device: Peri-Purge
Start time: 1610 Depth To Top Of Screen: 17.5 ft Tubing Present In Well: Yes No
Finish Time: 1630 Depth To Bottom Of Screen: 11 ft Tubing Type:

H&A FILE NO.
PROJECT MGR. Yen-Ny Van
FIELD REP Zach Stephens
DATE 10/10/23

Time Purge Cumulative Temp Conductivity ORP/eH Dissolved Oxygen Turbidity DTW
(gal/min) Rate Vol. (°C) pH (us/cm) (mv) (mg/l) (NTU) (feet bhtc)
1610 1.0 1.0 21.2 6.75 774 111 1.71 24 8.42
1615 1.5 1.5 21.0 6.68 772 102 0.66 24 8.45
1620 2.0 2.0 21.0 6.63 774 98 0.58 23 8.44
1625 2.5 2.5 20.9 6.68 778 96 0.54 20 8.49
1630 3.0 20.9 6.69 781 94 0.54 17 8.49 Sample @ 1630
~~1630~~

Time	Purge Rate	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (us/cm)	ORP/eH (mv)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	DTW (feet bhtc)	Comments
1610	1.0	1.0	21.2	6.75	774	111	1.71	24	8.42	
1615	1.5	1.5	21.0	6.68	772	102	0.66	24	8.45	
1620	2.0	2.0	21.0	6.63	774	98	0.58	23	8.44	
1625	2.5	2.5	20.9	6.68	778	96	0.54	20	8.49	
1630	3.0	20.9	6.69	781	94	0.54	17	8.49	Sample @ 1630	1630 1630

Fistous iron : 0.0 mg/l
Hale soft
tubing in well



WELL SAMPLING FORM

PROJECT
Tiger Oil
LOCATION
Yakima, WA
CLIENT

CONTRACTOR

Sampling Data:
Well ID: KM 006
Start time: 10950
Fresh Time: 1070

Well Depth: 1902 ft
Depth To Top Of Screen: 1070 ft
Depth To Bottom Of Screen: 1070 ft

Page 1 of 1

H&A FILE NO.
PROJECT MGR. Veni-Uy Van
FIELD REP Zain Stephen
DATE 10/10/23

Purge: Peri
ft
Purging Device: Yes No
Tubing Present In Well: Yes No
Tubing Type:

Initial Depth To Water: 1902 ft
Depth Of Pump Intake: 14 ft

Time:

Purge Rate:

Cumulative Purge Vol.

Temp-erature

(gal/min)

(°C)

(gal)

pH

(us/cm)

(mv)

ORP/H

(mV)

Conduct-

ivity

Turbidity

(NTU)

Oxygen

(mg/L)

DTW

(feet boric)

Comments

00000 Present

M1 Purge start: 10321

1L end: 10355

Hack Kit Gorous iron: 0.5 mg/L

tubing left in well



WELL SAMPLING FORM

WELL SAMPLING FORM									
PROJECT	Tiger Oil Yakima, WA			Page	of				
LOCATION									
CLIENT									
CONTRACTOR									
Sampling Data:									
Well ID:	1KH-7		Well Depth:	70.0		ft	Initial Depth To Water:	12.13	
Start Time:	0655		Depth To Top Of Screen:			ft	Depth Of Pump Intake:	15	
Finish Time:	0410		Depth To Bottom Of Screen:			ft	Tubing Type:		
Time	Purge Rate	Cumulative Purge Vol.	Temperature (°C)	pH	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW	Comments
0655	(gal/min)	(gal)	7.324	17.4	850	11.4	7.55	7.6	12.4A
0900			7.728	836	122	7.41	2.1	12.21	
0905			7.722	837	123	7.43	2.4	12.20	
0910			7.353	837	124	7.45	3.1	12.20	
0915			7.34	839	125	7.43	3.8	12.20	Sample @ 0a15"
0920									"14mW7-w-15"
tubing left in well									
Hackleit D.D. mg/k Ferrus iron									



WELL SAMPLING FORM

ages old
Yalema, wa

PROJECT
LOCATION
CLIENT

WELL SAMPLING FORM										Page _____ of _____	
PROJECT	Ages Oil Yakima, WA			H&A FILE NO.	Year- Year Tech Spec's						
LOCATION				PROJECT MGR.	Year- Year						
CLIENT				FIELD REP	Tech Spec's						
CONTRACTOR				DATE	10/10/23						
Sampling Data:	Well ID: KMW-14 Start time: 1430 Finish Time: 1450			Well Depth:	16.68	ft	Initial Depth To Water:	11.98	ft	Purging Device:	Resi
				Depth To Top Of Screen:	15	ft	Depth Of Pump Intake:	15	ft	Tubing Present In Well:	<input type="checkbox"/> Yes
				Depth To Bottom Of Screen:	11	ft	Tubing Type:				
Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µs/cm)	ORP/eH (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet bblc)	Comments	
1430			19.4	6.68	1430	70.6	0.43	17.4	12.07		
1435			19.4	6.64	1423	66.3	0.67	14.8	12.09		
1440			19.3	6.63	1415	65	0.52	13.7	12.10		
1445			19.4	6.63	1407	65	0.47	10.4	12.11		
1450	~1.0	19.3	6.64	1389	65	0.43	7.7	12.11	Sample @ 1450 11' K.M.D 14-w-15'	Black vit : 0.0 mg/l fermentation	



WELL SAMPLING FORM

PROJECT
LOCATION
CLIENT
CONTRACTOR

Finger Oil
Vallejo, CA

Sampling Data:

Well ID: KMW-15
Start time: 13:15
Finish Time: 13:35

Well Depth: 20.54 ft
Depth To Top Of Screen: _____ ft
Depth To Bottom Of Screen: _____ ft

Page _____ of _____

H&A FILE NO.
PROJECT MGR. Yen-Vy Van
FIELD REP. Paul Stephany
DATE 10/10/123

Peri - Pump
Purging Device: _____
Tubing Present In Well: Yes No
Tubing Type: _____

Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µs/cm)	ORP/H (mv)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet back)	Comments
13:15			18.6	7.03	1116	-37	0.99	12.9	10.21	slight odor
13:16			18.6	7.01	1114	-53	0.99	12.3	10.31	
13:25			19.6	7.00	1113	-56	0.36	11.1	10.37	
13:30			18.5	7.01	1112	-56	0.31	10.0	10.37	
13:35	1.0	1.0	18.7	7.01	1113	-56	0.29	8.7	10.37	sample @ 1335 "KMW-15-W-15"

Hach kit: 1.0 mg/L
ferric iron

tubing left in well



WELL SAMPLING FORM

PROJECT Tiger Oil
LOCATION Yakima, WA
CLIENT /
CONTRACTOR /

Page _____ of _____

H&A FILE NO. Yen-Vy Yam
PROJECT MGR.邹琳
FIELD REP邹琳
DATE 10/10/23

Sampling Data:

Well ID: KJU02-16 Well Depth: 13.45 ft Initial Depth To Water: 9.68 ft Purging Device: Pesi Pump

Start time: 11:15 Depth To Top Of Screen: 11 ft Depth Of Pump Intake: 11 ft Tubing Present In Well: Yes No

Finish Time: 11:40 Depth To Bottom Of Screen: 11 ft Tubing Type: _____

Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µs/cm)	ORP/eH (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet btoc)	Comments
11:15			18.6	6.98	1369	-139	0.79	6.7	9.77	0/500 Present
11:20			19.2	6.92	1471	-139	0.43	9.2	9.81	
11:25			19.3	6.90	1562	-135	0.35	7.8	9.84	
11:30			19.4	6.84	1633	-133	0.79	5.1	9.87	
11:35			19.4	6.90	1653	-133	0.25	3.2	9.88	
11:40			19.4	6.90	1653	-133	0.23	18	9.88	Sample @ 11:40 "EMUL-W-11"

Hack Mix ferrous iron 0.0
Tubing left in well



WELL SAMPLING FORM

PROJECT	Tiger Oil Yakima			Page of					
LOCATION									
CLIENT	City of Yakima								
CONTRACTOR									
Sampling Data:									
Well ID:	MW-9	Well Depth:	18.65 ft	Initial Depth To Water:	13.11 ft				
Start time:	14:45	Depth To Top Of Screen:		Depth Of Pump Intake:	15.0 ft				
Finish Time:	15:05	Depth To Bottom Of Screen:		Tubing Type:	<input checked="" type="checkbox"/> No				
				Purging Device:	<input type="checkbox"/> Yes				
				Tubing Present In Well:	<input type="checkbox"/> No				
				Comments					
Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µs/cm)	ORP/eH (mv)	Oxygen (mg/L)	Turbidity (NTU)	DTW (feet btoc)
14:45			16.0	6.62	1224	7.0	1.38	35.30	13.86
14:50			16.1	6.60	1222	13.5	0.45	77.0	14.50
14:55			16.1	6.60	1224	-11.3	0.34	87.14	14.10
15:02			16.2	6.63	1238	-35.4	0.30	85.30	15.28
15:05	0.75	16.1	6.68	1246	-54.5	0.24	72.90	shen detected	out of well (Scattered). GW level
									detected
									Water tube was extended extended 1ft
									to below 15 ft target depth
									Noted in Col there is slight sheen.
									to 15.6
									At 15. 6 ft sheen (oil) was still detected
									Sheen stopped at 17.50 ft -
									Sample was not collected at this well
									DTW was measured again at the end of the event. Water was detected at 14.80 ft and no sheen water recharge issue?
									Oil was pumped out of tubing



WELL SAMPLING FORM

PROJECT
LOCATION
CLIENT
CONTRACTOR

tiger oil
Yakima, WA

H&A FILE NO.
PROJECT MGR.
FIELD REP
DATE

Yen-Vy Van
Zach Stephens
10/10/23

Page of

Page

Sampling Data:

Well ID: MW-1D
Start time: 0755
Finish Time: 0820

Well Depth: _____
Depth To Top Of Screen: _____
Depth To Bottom Of Screen: _____

Persi
Purging Device:
 Yes No

Time

Purge Rate

Initial Depth To Water:

ft

Cumulative Purge Vol.

Depth Of Pump Intake:

ft

Temperature

Tubing Type:

ft

Conductivity

Comments

ORP/eH

Dissolved Oxygen

Turbidity

DTW

(mg/L)

(feet back)

(mV)

(µs/cm)

pH

(°C)

(gal)

(cm)

(mV)

(mg/L)

(NTU)

(feet back)

0755	17.7	7.26	1470	102	7.51	43	11.92
0800	17.7	7.23	1320	110	7.28	10.8	11.96
0805	17.7	7.23	1496	113	7.21	7.4	11.98
0810	17.6	7.25	1459	115	7.18	6.5	12.00
0815	17.7	7.26	1428	118	7.15	4.41	11.47
0820	17.5	17.7	7.27	1399	119	7.13	3.61

Sample @ 0820
" MW-10-W-15"

Ferrous iron Hach kit 0.0 mg/L



WELL SAMPLING FORM

WELL SAMPLING FORM									
PROJECT	Tiger oil Yakima City of Yakima			Page	of				
LOCATION									
CLIENT									
CONTRACTOR									
Sampling Data:									
Well ID:	MW - 1		Well Depth:	15.74		Initial Depth To Water:	12.80		ft
Start time:	9:18		Depth To Top Of Screen:			Depth Of Pump Intake:	13		Purging Device:
Finish Time:	9:58		Depth To Bottom Of Screen:			Tubing Type:			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temp- erature (°C)	pH	Conduct- ivity (us/cm)	ORP/eH (mv)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet btoc) Comments
9:18	16.2	6.64	2191	343.4	2.33	6.50	13.00	13.00	Depth of pump intake increased 1 ft due
9:27	16.5	6.66	2206	327.2	2.14	6.98	13.10	13.10	to drop in GW level
9:28	16.6	6.69	2213	71.1	8.210	8.72	13.25	13.25	Slight
9:33	16.6	6.71	2205	13.9	2.10	18.54	13.35	13.35	Sheen, strong gasoline odor
9:38	16.6	6.72	2182	-24.1	2.11	31.85	13.40	13.40	
9:43	16.6	6.74	2136	-51.7	2.13	32.31	13.40	13.40	
9:48	16.5	6.75	2101	-64.6	2.15	23.61	13.45	13.45	
9:53	16.4	6.76	2082	-74.4	2.17	18.12	13.45	13.45	
9:58	1.5	16.5	6.76	2069	-80.2	2.20	14.58	13.45	I.D. MWII-W-13.
									Florescent conc. g.8m3/l



WELL SAMPLING FORM

Page _____ of _____

PROJECT Tiger 0:1
LOCATION Yaking
CLIENT City of Yaking
CONTRACTOR

Well ID: MW - 13
Start time: 15:50
Finish Time: 16:10

Sampling Data:

Well Depth: 17.80 ft
Depth To Top Of Screen: 15.0 ft
Depth To Bottom Of Screen: 1.80 ft

H&A FILE NO. _____
PROJECT MGR. Yen-uy Van
FIELD REP. Y.F.
DATE 10-12-23

Initial Depth To Water: 13.30 ft
Depth Of Pump Intake: 15.0 ft
Tubing Type: Peri

Purging Device: Yes No

Tubing Present In Well:

Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µS/cm)		Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet back)	Comments
					ORP/eH (mv)	DTW				
15:50			15.8	6.69	869	-1.0	0.95	17.67	14.33	Visible oil sheen gasoline odor
15:55			15.9	6.66	864	-37.8	0.30	18.60	15.23	Water level dropped rapidly tubing
16:00			15.9	6.71	854	-48.8	0.10	22.27	15.90	was extended as needed
16:05			16.0	6.69	844	-49.3	0.18	22.67	16.30	
16:10	0.5	15.8	6.70	843	-53.6	0.25	12.12	16.55	Sampled start at 16:10 due to water volume in the well	

T.D. MW 13-W - 15
Feltens cont. 2.1 mg/L



WELL SAMPLING FORM



WELL SAMPLING FORM

WELL SAMPLING FORM										Page _____ of _____	
PROJECT	Tiger Oil Volvo City of Yakima			H&A FILE NO.	Per						
LOCATION				PROJECT MGR.	Yen-Vy Van						
CLIENT				FIELD REP	Y.L.						
CONTRACTOR				DATE							
Sampling Data:											
Well ID:	W4-3			Well Depth:	145.22			Initial Depth To Water:	6.64 ft		
Start Time:	12:55			Depth To Top Of Screen:				Depth Of Pump Intake:	10.0 ft		
Finish Time:	13:25			Depth To Bottom Of Screen:				Tubing Type:	<input checked="" type="checkbox"/> No		
Time	Purge Rate	Cumulative Purge Vol.	(gal)	Temp-erature (°C)	pH	Conduct-ivity (us/cm)	ORP/eH (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet btoc)	Comments
12:55				17.0	6.92	1265	86.0	0.96	5.60	6.65	Strong sewer odor. No <input checked="" type="checkbox"/> green
13:00				17.1	6.91	1249	-19.7	0.47	8.55	6.71	
13:05				17.2	6.91	1221	-51.6	0.37	4.45	6.75	
13:10				17.3	6.92	1200	-67.0	0.32	4.27	6.75	
13:15				17.3	6.92	1193	-75.7	0.28	3.89	6.78	
13:20				17.3	6.92	1188	-80.9	0.27	9.01	6.78	
13:25				17.3	6.92	1189	-85.3	0.25	4.81	6.78	Santrol @ 13.25 Follows iron 4.7 ms/l
											I.D. MWG 3-W-12



WELL SAMPLING FORM

WELL SAMPLING FORM										Page _____ of _____
PROJECT	Tiger Oil Yakima			H&A FILE NO.	Yen-Vy Van					
LOCATION				PROJECT MGR.						
CLIENT	City of Yakima			FIELD REP	Y. L.					
CONTRACTOR				DATE	10-10-23					
Sampling Data:				Initial Depth To Water:	10.60		ft	Purging Device:	Peri	
Well ID:	S-1			Depth Of Pump Intake:	12.0		ft	Tubing Present In Well:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Start Time:	10:35			Depth To Top Of Screen:				Tubing Type:		
Finish Time:	10:55			Depth To Bottom Of Screen:						
Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	pH	Conductivity (µs/cm)	ORP/eH (mv)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet btoc)	Comments
10:35			16.9	7.42	824	382.6	276	16.09	10.69	No Sheen, slight sewer odor
10:40			17.1	7.39	820	417.7	2.92	4.90	10.69	
10:45			17.2	7.38	819	4022.3	3.11	2.78	10.70	
10:50			17.2	7.38	819	417.2	3.28	2.41	10.70	
10:55	1.0	17.3	7.38	818	408.7	3.43	2.20	10.70	Sampled @ 6:55 for M.I.	
									10.70	
									St 65 +2	
										SI-MI-W-12
										Purging Started @ 10:56. 1L.
										Stopped @ 11:09



WELL SAMPLING FORM

PROJECT Tiger Oil
 LOCATION Yakima, WA
 CLIENT _____
 CONTRACTOR _____

Well ID: S-2
 Start time: 0800
 Finish Time: 0835

Sampling Data:

Well Depth: 12.91 ft Initial Depth To Water: 7.73 ft
 Depth To Top Of Screen: ~10 ft Depth Of Pump Intake: ~10 ft

Depth To Bottom Of Screen: ft

Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temperature (°C)	Conductivity (µS/cm)	ORP/eH (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet back)	Comments	
									Spec.	Temp.
0800			17.0	6.40	1115	-57.4	0.86	4.5	7.77	ODOR present
0805			17.2	6.49	1180	-40.1	0.52	3.3	7.79	
0810			17.2	6.57	1246	-108.0	0.42	3.7	7.81	
0815	0.5	17.0	6.71	1328	-124	0.47	2.81	7.81		flow rate increased
0820			17.0	6.71	1315	-123	0.33	3.4	7.83	
0825			17.0	6.71	1222	-126	0.28	2.9	7.83	
0830			16.9	6.72	1338	-126	0.16	2.6	7.83	
0835	~1.75	16.9	6.73	1343	-131	0.25	2.6	7.84		

Sample @ 0835

"SL-W-10"
 # tubing left in well

M1 purge start: 0859
 purge 1L end:

Hawk kit return from: long tv



WEH SAMPLING FORM

WELL SAMPLING FORM										
PROJECT	Tiger Oil	Page	of							
LOCATION	Vafim									
CLIENT	City of Vafim									
CONTRACTOR										
H&A FILE NO.	Yen-Uy Van									
PROJECT MGR.	Yen-Uy Van									
FIELD REP	Y.F									
DATE	10-10-23									
Sampling Data:										
Well ID:	YMN-2	Well Depth:	19.74 ft							
Start time:	17:03	Depth To Top Of Screen:								
Finish Time:	17:38	Depth To Bottom Of Screen:								
Time	Purge Rate	Cumulative Purge Vol. (gal)	Temp-erature (°C)	pH	Conduct-ivity (us/cm)	ORP/eH (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	DTW (feet below)	Comments
17:03			18.5	6.91	900	280.7	1.16	19.44	12.54	very slight oil sheen, strong gasoline odor
17:08			18.7	6.86	957	285.4	0.76	9.82	12.54	
17:13			18.8	6.84	1003	216.0	0.46	7.43	12.54	
17:18			18.8	6.83	1026	169.1	0.38	4.26	12.54	
17:23			18.8	6.82	1046	118.0	0.36	3.39	12.54	
17:28			18.7	6.81	1076	43.4	0.36	3.75	12.54	
17:33			18.7	6.81	1096	-10.5	0.37	3.26	12.54	
17:38			18.7	6.80	1121	-38.7	0.34	3.12	12.54	Sampled @ 17:33.
										I.D. Ymn 2 - W - 15
										Ferrous Conc. 62 mg/l
										Drpt 2 D Ymn - Drpt - W = depth
										Drpt Collected @ Same time



WELL SAMPLING FORM

PROJECT Tiger Oil
 LOCATION Yakima
 CLIENT City of Yakima
 CONTRACTOR

PROJECT MGR. Yen-Uy Van
 FIELD REP Y.F.
 DATE 10-11-23

Page of

H&A FILE NO.
 Purging Device: Perf
 Yes No
 Tubing Present In Well: 15.
 Tubing Type:

Sampling Data:

Well ID: YmW - 3 Well Depth: 19.69 ft Initial Depth To Water: 11.6 ft
 Start time: 8:29 Depth To Top Of Screen: ft Depth Of Pump Intake: 15. ft
 Finish Time: 8:35 Depth To Bottom Of Screen: 1 ft

Time	Purge Rate (gal/min)	Cumulative Purge Vol. (gal)	Temp-erature (°C)	pH	Conductivity (µs/cm)	ORP/eH (mv)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	DTW (feet back)		Comments
									DW	DTW	
8:29		16.8	7.16	494	417.6	2.06	9.82	11.14			An Yield Gasline & Silver edge, no sheen
8:35		16.9	7.27	1486	168.3	1.83	6.03	11.14			
8:40		17.1	7.26	1506	179.2	1.75	4.50	11.14			
8:45		17.1	7.22	1533	506.3	1.74	3.67	11.14			
8:50		17.1	7.23	1544	456.1	1.76	3.11	11.15			
8:55		17.1	7.23	1551	34.2	1.80	2.84	11.15			
9:00		17.0	7.23	1553	238.5	1.84	2.79	11.15			
9:05		17.0	7.23	1552	171.8	1.87	2.77	11.15			

Sampled @ 8:35
 I.D. YMW3 - W-15
 Previous total: 6.1 ms/l

APPENDIX B
Analytical Laboratory Report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 19, 2023

Yen-Vy Van
Hart Crowser, Inc.
A Division of Haley & Aldrich, Inc.
3131 Elliott Avenue, Suite 600
Seattle, WA 98121

Re: Analytical Data for Project 0204793-000
Laboratory Reference No. 2310-129

Dear Yen-Vy:

Enclosed are the analytical results and associated quality control data for samples submitted on October 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

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

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: October 19, 2023
Samples Submitted: October 11, 2023
Laboratory Reference: 2310-129
Project: 0204793-000

Case Narrative

Samples were collected on October 10 and 11, 2023 and received by the laboratory on October 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



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Date of Report: October 19, 2023
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 Laboratory Reference: 2310-129
 Project: 0204793-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	65-122				
Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Gasoline	780	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	65-122				
Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	65-122				
Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	80	65-122				
Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	77	65-122				
Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Gasoline	2500	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	65-122				
Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	65-122				



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 Project: 0204793-000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Gasoline	54000	1000	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	65-122				
Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	65-122				
Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
Gasoline	13000	1000	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	65-122				
Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
Gasoline	1800	500	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	65-122				
Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
Gasoline	9200	1000	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	65-122				
Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
Gasoline	1100	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	65-122				
Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
Gasoline	24000	1000	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	65-122				



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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
Gasoline	1800	500	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	65-122				
Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
Gasoline	8000	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	65-122				



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GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012W1					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	80	65-122				
Laboratory ID:	MB1012W2					
Gasoline	ND	100	NWTPH-Gx	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	81	65-122				
Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD Limit Flags
DUPLICATE						
Laboratory ID:	10-129-01					
	ORIG	DUP				
Gasoline	ND	ND	NA	NA	NA	NA 30
Surrogate:						
Fluorobenzene				85	75	65-122
Laboratory ID:	10-129-02					
	ORIG	DUP				
Gasoline	784	767	NA	NA	NA	2 30
Surrogate:						
Fluorobenzene				93	90	65-122



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 Project: 0204793-000

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	0.31	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	0.34	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	2.2	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	13	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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 Project: 0204793-000

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	118	75-127				
Toluene-d8	112	80-127				
4-Bromofluorobenzene	93	78-125				



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VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Benzene	69	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	4.3	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	27	0.80	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	



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 Laboratory Reference: 2310-129
 Project: 0204793-000

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	80	0.80	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	13	1.6	EPA 8260D	10-12-23	10-12-23	
o-Xylene	1.7	0.80	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	119	75-127				
Toluene-d8	111	80-127				
4-Bromofluorobenzene	95	78-125				



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	0.61	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	27	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	0.35	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	120	75-127				
Toluene-d8	111	80-127				
4-Bromofluorobenzene	91	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	120	75-127				
Toluene-d8	114	80-127				
4-Bromofluorobenzene	92	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	0.47	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	0.37	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	0.30	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	1.8	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	5.2	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	117	75-127				
Toluene-d8	112	80-127				
4-Bromofluorobenzene	90	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	2.0	2.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	25	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	10	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Benzene	260	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	10	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	370	2.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	79	4.0	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	10	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	75-127				
Toluene-d8	110	80-127				
4-Bromofluorobenzene	95	78-125				



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	0.69	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	23	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	75-127				
Toluene-d8	110	80-127				
4-Bromofluorobenzene	92	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Dichlorodifluoromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	100	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	100	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	100	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	250	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	100	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	100	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	2600	20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	9600	40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	79	20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	100	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	100	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	100	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	114	75-127				
Toluene-d8	113	80-127				
4-Bromofluorobenzene	96	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	0.54	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	0.26	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	28	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	75-127				
Toluene-d8	110	80-127				
4-Bromofluorobenzene	92	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
Dichlorodifluoromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	100	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	40	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Benzene	1200	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Toluene	160	40	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: October 19, 2023
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
1,1,1,2-Tetrachloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	670	8.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	1300	16	EPA 8260D	10-12-23	10-12-23	
o-Xylene	360	8.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	40	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	40	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	40	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	40	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	75-127				
Toluene-d8	110	80-127				
4-Bromofluorobenzene	96	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
Dichlorodifluoromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	20	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	50	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	20	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Benzene	470	4.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	20	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	340	4.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	110	8.0	EPA 8260D	10-12-23	10-12-23	
o-Xylene	5.1	4.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	20	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	20	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	114	75-127				
Toluene-d8	109	80-127				
4-Bromofluorobenzene	93	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
Dichlorodifluoromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	40	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	100	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	40	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Benzene	880	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	40	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	11	8.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
1,1,1,2-Tetrachloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	1200	8.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	1100	16	EPA 8260D	10-12-23	10-12-23	
o-Xylene	21	8.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	40	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	8.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	40	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	8.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	40	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	40	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	109	75-127				
Toluene-d8	108	80-127				
4-Bromofluorobenzene	95	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	5.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	5.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	5.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	13	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	5.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	7.5	1.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Benzene	35	1.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	3.5	1.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Toluene	6.2	5.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	8.5	1.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	200	1.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	130	2.0	EPA 8260D	10-12-23	10-12-23	
o-Xylene	5.8	1.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	5.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	5.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	5.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	107	75-127				
Toluene-d8	107	80-127				
4-Bromofluorobenzene	95	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
Dichlorodifluoromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	50	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	10	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	50	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	50	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	10	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	130	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	50	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	10	EPA 8260D	10-12-23	10-12-23	
Benzene	27	10	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260D	10-12-23	10-12-23	
Toluene	460	50	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	1800	10	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	3900	20	EPA 8260D	10-12-23	10-12-23	
o-Xylene	1300	10	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	50	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	10	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	50	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	50	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	109	75-127				
Toluene-d8	111	80-127				
4-Bromofluorobenzene	98	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	25	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	10	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	7.3	2.0	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Benzene	41	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	3.1	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	10	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	7.2	2.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	250	2.0	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	180	4.0	EPA 8260D	10-12-23	10-12-23	
o-Xylene	7.5	2.0	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	10	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	10	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	10	EPA 8260D	10-12-23	10-12-23	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	114	75-127				
Toluene-d8	110	80-127				
4-Bromofluorobenzene	92	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
Dichlorodifluoromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	1.1	0.80	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	10	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	2.9	0.80	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	2.5	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	4.3	0.80	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
1,1,1,2-Tetrachloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	110	0.80	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	72	1.6	EPA 8260D	10-12-23	10-12-23	
o-Xylene	6.0	0.80	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	4.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.80	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.80	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	111	75-127				
Toluene-d8	115	80-127				
4-Bromofluorobenzene	97	78-125				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	10-129-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TRIP BLANK					
Laboratory ID:	10-129-17					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	120	75-127				
Toluene-d8	112	80-127				
4-Bromofluorobenzene	94	78-125				



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloromethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromomethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Chloroethane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Iodomethane	ND	2.5	EPA 8260D	10-12-23	10-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chloroform	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Benzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Trichloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromomethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Toluene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012W1					
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-12-23	10-12-23	
o-Xylene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Bromoform	ND	1.0	EPA 8260D	10-12-23	10-12-23	
Bromobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-12-23	10-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-12-23	10-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-12-23	10-12-23	
<i>Surrogate:</i>						
Dibromofluoromethane	124	75-127				
Toluene-d8	111	80-127				
4-Bromofluorobenzene	91	78-125				



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags				
SPIKE BLANKS														
Laboratory ID:	SB1012W1													
	SB	SBD	SB	SBD	SB	SBD								
Dichlorodifluoromethane	9.06	8.36	10.0	10.0	91	84	34-166	8	21					
Chloromethane	12.3	12.6	10.0	10.0	123	126	63-138	2	18					
Vinyl Chloride	10.3	9.68	10.0	10.0	103	97	71-135	6	20					
Bromomethane	11.6	12.3	10.0	10.0	116	123	20-151	6	36					
Chloroethane	9.99	9.37	10.0	10.0	100	94	76-125	6	20					
Trichlorodifluoromethane	10.3	9.88	10.0	10.0	103	99	75-131	4	19					
1,1-Dichloroethene	9.89	9.45	10.0	10.0	99	95	78-125	5	19					
Iodomethane	7.95	10.1	10.0	10.0	80	101	10-155	24	40					
Methylene Chloride	9.04	8.60	10.0	10.0	90	86	80-120	5	15					
(trans) 1,2-Dichloroethene	9.88	9.61	10.0	10.0	99	96	80-125	3	17					
1,1-Dichloroethane	9.87	9.55	10.0	10.0	99	96	80-125	3	17					
2,2-Dichloropropane	11.6	11.3	10.0	10.0	116	113	80-146	3	21					
(cis) 1,2-Dichloroethene	10.5	9.79	10.0	10.0	105	98	80-129	7	17					
Bromochloromethane	10.2	10.2	10.0	10.0	102	102	80-125	0	18					
Chloroform	9.89	9.46	10.0	10.0	99	95	80-123	4	16					
1,1,1-Trichloroethane	9.89	9.62	10.0	10.0	99	96	80-123	3	18					
Carbon Tetrachloride	9.84	9.37	10.0	10.0	98	94	80-126	5	17					
1,1-Dichloropropene	9.88	9.48	10.0	10.0	99	95	80-126	4	18					
Benzene	9.81	9.57	10.0	10.0	98	96	80-121	2	16					
1,2-Dichloroethane	10.0	9.83	10.0	10.0	100	98	80-124	2	15					
Trichloroethene	9.93	9.77	10.0	10.0	99	98	80-122	2	18					
1,2-Dichloropropane	9.81	9.21	10.0	10.0	98	92	80-123	6	15					
Dibromomethane	9.72	9.73	10.0	10.0	97	97	80-123	0	15					
Bromodichloromethane	10.1	9.84	10.0	10.0	101	98	80-125	3	15					
(cis) 1,3-Dichloropropene	10.6	10.3	10.0	10.0	106	103	80-129	3	15					
Toluene	9.46	9.20	10.0	10.0	95	92	80-120	3	18					
(trans) 1,3-Dichloropropene	9.58	9.21	10.0	10.0	96	92	80-134	4	17					
1,1,2-Trichloroethane	10.5	10.2	10.0	10.0	105	102	77-126	3	20					
Tetrachloroethene	10.6	10.1	10.0	10.0	106	101	80-124	5	18					
1,3-Dichloropropane	10.3	10.0	10.0	10.0	103	100	80-120	3	15					
Dibromochloromethane	11.0	10.7	10.0	10.0	110	107	80-128	3	15					
1,2-Dibromoethane	10.9	10.4	10.0	10.0	109	104	80-127	5	15					
Chlorobenzene	10.4	10.1	10.0	10.0	104	101	80-120	3	17					



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QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags						
SPIKE BLANKS																
Laboratory ID: SB1012W1																
	SB	SBD	SB	SBD	SB	SBD										
1,1,1,2-Tetrachloroethane	10.8	10.4	10.0	10.0	108	104	80-125	4	17							
Ethylbenzene	10.8	10.4	10.0	10.0	108	104	80-125	4	18							
m,p-Xylene	21.6	20.7	20.0	20.0	108	104	80-127	4	18							
o-Xylene	10.7	10.3	10.0	10.0	107	103	80-126	4	18							
Bromoform	10.9	10.9	10.0	10.0	109	109	80-130	0	15							
Bromobenzene	10.4	9.98	10.0	10.0	104	100	76-128	4	16							
1,1,2,2-Tetrachloroethane	9.99	9.88	10.0	10.0	100	99	74-130	1	15							
1,2,3-Trichloropropane	9.35	9.12	10.0	10.0	94	91	71-129	2	25							
2-Chlorotoluene	10.8	10.4	10.0	10.0	108	104	80-128	4	18							
4-Chlorotoluene	10.9	10.5	10.0	10.0	109	105	80-130	4	19							
1,3-Dichlorobenzene	10.7	10.5	10.0	10.0	107	105	80-126	2	17							
1,4-Dichlorobenzene	10.9	10.5	10.0	10.0	109	105	80-121	4	17							
1,2-Dichlorobenzene	10.6	10.2	10.0	10.0	106	102	79-125	4	15							
1,2-Dibromo-3-chloropropane	9.83	10.7	10.0	10.0	98	107	73-133	8	15							
1,2,4-Trichlorobenzene	11.1	11.0	10.0	10.0	111	110	80-139	1	18							
Hexachlorobutadiene	12.0	12.5	10.0	10.0	120	125	80-151	4	18							
1,2,3-Trichlorobenzene	8.72	8.77	10.0	10.0	87	88	75-146	1	28							
<i>Surrogate:</i>																
Dibromofluoromethane					118	119	75-127									
Toluene-d8					113	114	80-127									
4-Bromofluorobenzene					98	98	78-125									



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**NITRATE (as Nitrogen)
EPA 353.2**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Nitrate	2.8	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Nitrate	2.0	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Nitrate	4.3	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Nitrate	3.2	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Nitrate	0.29	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Nitrate	1.1	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Nitrate	5.4	0.10	EPA 353.2	10-11-23	10-11-23	

Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Nitrate	1.3	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Nitrate	4.3	0.050	EPA 353.2	10-11-23	10-11-23	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
Nitrate	0.13	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
Nitrate	ND	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
Nitrate	1.6	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
Nitrate	0.76	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
Nitrate	ND	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
Nitrate	0.38	0.050	EPA 353.2	10-11-23	10-11-23	

Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
Nitrate	1.7	0.050	EPA 353.2	10-11-23	10-11-23	



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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011W1					
Nitrate	ND	0.050	EPA 353.2	10-11-23	10-11-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	10-129-01							
	ORIG	DUP						
Nitrate	2.76	2.65	NA	NA	NA	NA	4	19

MATRIX SPIKE

Laboratory ID:	10-129-01	MS	MS	MS			
Nitrate	4.67	2.00	2.76	96	85-121	NA	NA

SPIKE BLANK

Laboratory ID:	SB1011W1	SB	SB	SB			
Nitrate	2.11	2.00	NA	106	87-118	NA	NA



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**TOTAL MANGANESE
EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Manganese	13000	100	EPA 6010D	10-17-23	10-19-23	

Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Manganese	1900	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Manganese	ND	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Manganese	520	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Manganese	3700	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Manganese	3300	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Manganese	43	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Manganese	4300	10	EPA 6010D	10-17-23	10-18-23	



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**TOTAL MANGANESE
EPA 6010D**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Manganese	43	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
Manganese	950	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
Manganese	4800	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
Manganese	340	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
Manganese	2000	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
Manganese	1500	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
Manganese	2100	10	EPA 6010D	10-17-23	10-18-23	

Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
Manganese	960	10	EPA 6010D	10-17-23	10-18-23	



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**TOTAL MANGANESE
EPA 6010D
QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1017WH2					
Manganese	ND	10	EPA 6010D	10-17-23	10-18-23	

Analyte	Result	Spike Level	Source	Percent	Recovery	RPD		
			Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	10-145-20							
	ORIG	DUP						
Manganese	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	10-145-20	MS	MSD	MS	MSD	MS	MSD	
Manganese	495	504	500	500	ND	99	101	75-125 2 20

SPIKE BLANK

Laboratory ID:	SB1017WH2						
Manganese	500		500	N/A	100	80-120	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Sulfate	27	10	ASTM D516-11	10-16-23	10-16-23	

Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Sulfate	16	5.0	ASTM D516-11	10-16-23	10-16-23	

Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Sulfate	30	10	ASTM D516-11	10-16-23	10-16-23	

Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Sulfate	68	20	ASTM D516-11	10-16-23	10-16-23	

Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Sulfate	11	5.0	ASTM D516-11	10-16-23	10-16-23	

Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Sulfate	5.6	5.0	ASTM D516-11	10-16-23	10-16-23	

Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Sulfate	31	10	ASTM D516-11	10-16-23	10-16-23	

Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Sulfate	99	50	ASTM D516-11	10-16-23	10-16-23	

Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Sulfate	29	10	ASTM D516-11	10-16-23	10-16-23	



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<u>Client ID:</u>	MWG3-W-10					
<u>Laboratory ID:</u>	10-129-10					
Sulfate	ND	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	S2-W-10					
<u>Laboratory ID:</u>	10-129-11					
Sulfate	5.1	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	YMW1-W-15					
<u>Laboratory ID:</u>	10-129-12					
Sulfate	11	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	YMW2-W-15					
<u>Laboratory ID:</u>	10-129-13					
Sulfate	ND	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	YMW3-W-15					
<u>Laboratory ID:</u>	10-129-14					
Sulfate	ND	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	YMW-DUP-W-Depth					
<u>Laboratory ID:</u>	10-129-15					
Sulfate	9.4	5.0	ASTM D516-11	10-16-23	10-16-23	

<u>Client ID:</u>	MW13-W-15					
<u>Laboratory ID:</u>	10-129-16					
Sulfate	17	5.0	ASTM D516-11	10-16-23	10-16-23	



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

SULFATE
ASTM D516-11
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
Sulfate	ND	5.0	ASTM D516-11	10-16-23	10-16-23	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	10-129-05							
	ORIG	DUP						
Sulfate	11.4	11.7	NA	NA	NA	NA	3	10

MATRIX SPIKE

Laboratory ID:	10-129-05	MS	MS	MS			
Sulfate	20.7	10.0	11.4	93	73-127	NA	NA

SPIKE BLANK

Laboratory ID:	SB1016W1	SB	SB	SB			
Sulfate	9.56	10.0	NA	96	85-114	NA	NA



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

DISSOLVED METHANE
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KMW5-W-13					
Laboratory ID:	10-129-01					
Methane	1.7	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	87	50-150				
Client ID:	KMW6-W-14					
Laboratory ID:	10-129-02					
Methane	810	11	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	82	50-150				
Client ID:	KMW7-W-15					
Laboratory ID:	10-129-03					
Methane	2.5	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	105	50-150				
Client ID:	KMW14-W-15					
Laboratory ID:	10-129-04					
Methane	3.4	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	96	50-150				
Client ID:	KMW15-W-15					
Laboratory ID:	10-129-05					
Methane	88	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	92	50-150				
Client ID:	KMW16-W-11					
Laboratory ID:	10-129-06					
Methane	2600	17	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	90	50-150				



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Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

DISSOLVED METHANE
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW10-W-15					
Laboratory ID:	10-129-07					
Methane	ND	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	84	50-150				
Client ID:	MW11-W-13					
Laboratory ID:	10-129-08					
Methane	220	2.2	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	67	50-150				
Client ID:	MWG2-W-10					
Laboratory ID:	10-129-09					
Methane	ND	0.55	RSK 175	10-13-23	10-13-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	92	50-150				
Client ID:	MWG3-W-10					
Laboratory ID:	10-129-10					
Methane	3600	28	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	77	50-150				
Client ID:	S2-W-10					
Laboratory ID:	10-129-11					
Methane	820	5.5	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	79	50-150				
Client ID:	YMW1-W-15					
Laboratory ID:	10-129-12					
Methane	1100	5.5	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	138	50-150				



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Date of Report: October 19, 2023
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 Project: 0204793-000

DISSOLVED METHANE
RSK 175

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	YMW2-W-15					
Laboratory ID:	10-129-13					
Methane	280	1.7	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	126	50-150				
Client ID:	YMW3-W-15					
Laboratory ID:	10-129-14					
Methane	1200	11	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	91	50-150				
Client ID:	YMW-DUP-W-Depth					
Laboratory ID:	10-129-15					
Methane	290	1.7	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	138	50-150				
Client ID:	MW13-W-15					
Laboratory ID:	10-129-16					
Methane	790	5.5	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				
1-Butene	94	50-150				



Date of Report: October 19, 2023
 Samples Submitted: October 11, 2023
 Laboratory Reference: 2310-129
 Project: 0204793-000

DISSOLVED METHANE
RSK 175
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013W1					
Methane	ND	0.55	RSK 175	10-13-23	10-13-23	

Surrogate:
 1-Butene Percent Recovery Control Limits
 102 50-150

Laboratory ID:	MB1016W1					
Methane	ND	0.55	RSK 175	10-16-23	10-16-23	
Surrogate:	Percent Recovery	Control Limits				

1-Butene 102 50-150

Analyte	Result	Spike Level		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB1013W1	SB	SBD	SB	SBD	SB	SBD	
Methane	47.8	45.9		44.2	44.2	108	104	75-125
Surrogate:						110	104	50-150
1-Butene								
Laboratory ID:	SB1016W1	SB	SBD	SB	SBD	SB	SBD	
Methane	44.2	44.2		44.2	44.2	100	100	75-125
Surrogate:						99	99	50-150
1-Butene								



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Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Chain of Custody

Page 1 of 2

Chain of Custody

 Page 2 of 2

Turnaround Request (in working days)	
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(Check One)

 Same Day 1 Day 2 Days 3 Days Standard (7 Days) _____
(other)
Laboratory Number: **10-129**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	
		10/10/23	1325	W	4	1
10	MWG-3-W-10				X	X
11	S2-W-10	10/10/23	0935		X	X
12	YMW1-W-15	10/10/23	0932		X	X
13	YMW2-W-15	10/10/23	1738		X	X
14	YMW3-W-15	10/10/23	0855		X	X
15	YMW-DUR-W-Depth	10/10/23	1200	♂	X	X
16	MWB-W-15	10/10/23	1610	♂	X	X
17	TRIP BLANK	—	—	W	X	X
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished	H+A	10/10/23	1315	See page 1		
Received	<i>Jen-Vy Van</i>	10/10/23	1315			
Relinquished						
Received						
Relinquished						
Received						
Reviewed/Date						

Reviewed/Date

 Chromatograms with final report
 Electronic Data Deliverables (EDDs)

APPENDIX C
Quality Assurance Review

Data Usability Summary Report

Project Name: Former Tiger Oil /0204793-000 Task 04

Project Description: Soil Gas Samples

Sample Date(s): 22 February 2023

Analytical Laboratory: H&P Mobile Geochemistry, Inc., Carlsbad, CA

Validation Performed by: Kristina Ilina

Validation Reviewed by: Katherine Miller

Validation Date: 29 March 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Number HAL022823-10**
 2. **Explanations**
 3. **Glossary**
 4. **Abbreviations**
 5. **Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOP). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQO) for the project and therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number HAL022823-10

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number HAL022823-10, dated 9 March 2023. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocol.

Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
VEP2 Flow 1-20230222	N	E303001-01	02/22/2023	GS	A
VEP1 Flow 1-20230222	N	E303001-02	02/22/2023	GS	A
Effluent VEP1-20230222	N	E303001-03	02/22/2023	AE	B
VEP2 Flow 2-20230222	N	E303001-04	02/22/2023	GS	A
Static VEP1-20230222	N	E303001-05	02/22/2023	GS	B

Method Holding Times			
A.	SW8260	Volatile Organic Compounds by Gas Chromatograph/Mass Spectrometry (GC/MS)	30 days
B.	TO15	Determination of VOC in Ambient Air Using Special Cannisters & GC/MS	30 days

1.2 CASE NARRATIVE

The laboratory report case narratives included the following issues:

- Due to elevated concentrations, samples VEP2 Flow 1, VEP1 Flow 1 and VEP2 Flow 2 were analyzed by H&P 8260SV rather than EPA Method TO-15. The following EPA Method TO-15 analytes are not reported by H&P 8260SV: Dichlorotetrafluoroethane, 4-Ethyltoluene. No qualification is necessary.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.5 SURROGATE RECOVERY COMPLIANCE

Refer to section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control (QC) limits.

1.6 LABORATORY CONTROL SAMPLES

Refer to section E 1.3. Compounds associated with the laboratory control samples/laboratory control sample duplicates (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits with the following exceptions:

Sample Type	Method	Batch ID	Analyte	%R	Qualifier	Affected Samples
LCS	SW8260	EC30714	Chloroethane	68.2%	J/UJ	E303001-01, E303001-02, E303001-04
			1,1,2,2-Tetrachloroethane	62%	J/UJ	E303001-01, E303001-02, E303001-04

1.7 BLANK SAMPLE ANALYSIS

Refer to section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	Concentration ($\mu\text{g}/\text{m}^3$)	Qualifier	Affected Samples
MB	EC30715	Naphthalene	270	NA	None, samples are ND

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to section E 1.6. The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

1.9 PRECISION AND ACCURACY

Refer to section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the data quality objectives for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable. A summary of qualifiers applied to this data set is shown below.

Method	Sample ID	Lab ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
SW8260	VEP1 Flow 1-20230222	E303001-02	1,1,2,2-Tetrachloroethane	U	UJ	LCS
SW8260	VEP1 Flow 1-20230222	E303001-02	Chloroethane	U	UJ	LCS
SW8260	VEP2 Flow 1-20230222	E303001-01	1,1,2,2-Tetrachloroethane	U	UJ	LCS
SW8260	VEP2 Flow 1-20230222	E303001-01	Chloroethane	U	UJ	LCS
SW8260	VEP2 Flow 2-20230222	E303001-04	1,1,2,2-Tetrachloroethane	U	UJ	LCS
SW8260	VEP2 Flow 2-20230222	E303001-04	Chloroethane	U	UJ	LCS

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - MB Method Blank
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g}/\text{kg}$ microgram per kilogram
 - $\mu\text{g}/\text{L}$ microgram per liter
 - $\mu\text{g}/\text{m}^3$ microgram per cubic meter
 - mg/kg milligram per kilogram
 - mg/L milligram per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - WQ Water Quality control matrix
 - WS Surface Water
 - AE Air, Vapor Extraction Well Effluent
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - ~ approximately
 - x times (multiplier)

4. Abbreviations

%D	Percent Difference	mg/kg	milligrams per kilogram
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
µg/L	micrograms per liter	NFG	National Functional Guidelines
2s	2 sigma	NH ₃	Ammonia
4,4-DDT	4,4-dichlorodiphenyltrichloroethane	NYSDEC	New York State Department of Environmental Conservation
Abs Diff	Absolute Difference	PAH	polycyclic aromatic hydrocarbon
amu	atomic mass unit	PCB	Polychlorinated Biphenyl
BPJ	Best Professional Judgement	PDS	Post Digestion Spike
BS	Blank Spike	PEM	Performance Evaluation Mixture
CCB	Continuing Calibration Blank	PFAS	Per- and Polyfluoroalkyl Substances
CCV	Continuing Calibration Verification	PFBA	Perfluorbutanoic Acid
CCVL	Continuing Calibration Verification Low	PFD	Perfluorodecalin
COC	Chain of Custody	PFOA	Perfluorooctanoic Acid
COM	Combined Isotope Calculation	PFOS	Perfluorooctane sulfonate
Cr (VI)	Hexavalent Chromium	PPPeA	Perfluoropentanoic Acid
CRI	Collision Reaction Interface	QAPP	Quality Assurance Project Plan
DoD	Department of Defense	QC	Quality Control
DQO	data quality objective	QSM	Quality Systems Manual
DUSR	Data Usability Summary Report	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
FBK	Field Blank Contamination	Ra-228	Radium-228
FDP	Field Duplicate	RESC	Resolution Check Measure
GC	Gas Chromatograph	RL	Laboratory Reporting Limit
GC/MS	Gas Chromatography/Mass Spectrometry	RPD	Relative Percent Difference
GPC	Gel Permeation Chromatography	RRF	Relative Response Factors
H ₂	Hydrogen gas	RT	Retention Time
HCl	Hydrochloric Acid	SAP	sampling analysis plan
ICAL	Initial Calibration	SDG	Sample Delivery Group
ICB	Initial Calibration Blank	SIM	Selected ion monitoring
ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry	SOP	Laboratory Standard Operating Procedures
ICV	Initial Calibration Verification	SPE	Solid Phase Extraction
ICVL	Initial Calibration Verification Low	SVOC	Semi-Volatile Organic Compounds
IPA	Isopropyl Alcohol	TIC	Tentatively Identified Compound
LC	Laboratory Control	TKN	Total Kjeldahl Nitrogen
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	TPH	Total Petroleum Hydrocarbon
MBK	Method Blank Contamination	TPU	Total Propagated Uncertainty
MDC	Minimum Detectable Concentration	amu	atomic mass unit
MDL	Laboratory Method Detection Limit	USEPA	U.S. Environmental Protection Agency
		VOC	Volatile Organic Compounds
		WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June 2014.