1631 E. Saint Andrew Place
Santa Ana, CA 92705
t 714.919.6500

August 7, 2024

Mrs. Nancy Sawka
Oregon Department of Environmental Quality
Western Region Eugene Office
165 East Seventh Avenue, Suite 1000
Eugene, Oregon 97401

DEQ Tanks File No.: 20-20-0844

Second Quarter 2024 Groundwater Monitoring Report
United Pacific #5468
5720 Main Street
Springfield, Oregon

Dear Mrs. Sawka:

On behalf of United Pacific (UP), Montrose Environmental Services, Inc. (Montrose) is pleased to provide the *Second Quarter 2024 Groundwater Monitoring Report* (Report) for the above referenced Site (**Figure 1**). This Report presents a summary of the liquid-phase hydrocarbon (LPH) removal activities conducted during the second quarter of 2024 and a summary of the results for groundwater monitoring conducted on June 11 and 12, 2024.

Groundwater monitoring results indicate that LPH is present in several onsite wells and concentrations of dissolved-phase petroleum hydrocarbons exceed the Oregon Department of Environmental Quality's (DEQ's) Risk Based Concentrations (RBCs) for the Ingestion and Inhalation from Tapwater for the occupational receptor scenario are present in groundwater beneath the Site. Monthly LPH removal and quarterly groundwater monitoring are recommended while remedial actions are implemented for the Site. Should you have questions regarding this report, the LPH removal activities, or the groundwater monitoring results, please contact the undersigned at (714) 919-6500.

Sincerely,

Montrose Environmental

Laura Skow, RG
Project Manager

REGISTERED
OREGON
LAURA B. SKOW
G2643
GEOLOGIST
EXP. 9/30/25

c: Mr. Tom Robins, United Pacific

REPORT CONTENTS: **Page No.**

ATTACHMENTS:

SITE INFORMATION

Monitoring and Sampling Date:	June 11 and 12, 2024
Site Location:	United Pacific #5468 5720 Main Street Springfield, Oregon 97478
United Pacific Contact:	Mr. Tom Robins
Montrose Contact:	Mrs. Laura Skow
Regulatory Agency:	Oregon Department of Environmental Quality Western Region Eugene Office DEQ Tanks File No.: 20-20-0844

WORK PERFORMED

During the second quarter 2024, Montrose met with representatives of the City of Springfield Development and Public Works Department (City) for inspection of the site and the proposed sewer discharge point for a Two Phase Extraction (TPE) remediation system to be pilot tested at the site.

As requested by DEQ, one additional monitoring well and two soil vapor probes are proposed to further investigate the extent of impacts northwest of the site. During the period, Montrose obtained construction plans for the building on western adjacent property to aide in selecting the vapor probe locations and submitted construction information and a probe diagram to the DEQ for review. The DEQ concurred with the proposed locations as shown on **Figure 2**. Installation of the well and vapor points will proceed when access authorization is secured from the adjacent property owner.

On April 16, May 14 and 15, and June 11 and 12, 2024, Montrose performed LPH removal from select site wells using passive skimmers and manual bailing methods. A total of approximately 0.21 gallons of LPH and 22.80 gallons of groundwater were removed. LPH removal data for the reporting period are summarized in **Table 1**. Site wells not containing measurable amounts of LPH were sampled using DEQ approved low-flow purge sampling techniques. LPH removal and well gauging field data sheets for the second quarter of 2024 are included as **Appendix A**.

Groundwater samples were transported to a State approved environmental laboratory and analyzed for the presence of total petroleum hydrocarbons quantified as gasoline (TPH-Gx) by Method NWTPH-Gx and benzene, toluene, ethylbenzene, total xylenes (BTEX collectively), methyl tert-butyl ether (MTBE), naphthalene, 1-methyl naphthalene, 2-methyl naphthalene, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) by Environmental Protection Agency (EPA) Method 8260D. Note that the analysis plan was temporarily reduced from full scan volatile

organic carbons (VOCs) to short list VOCs since the wells are known to be impacted and remediation is planned for the site. Full scan VOC analysis may be reinstated for future monitoring if directed by the DEQ, for compliance monitoring once remediation is initiated, or for initial screening of new wells installed at the site.

Water quality parameters were measured in the field during sampling and are included in **Table 2**. Field-measured water quality parameters included dissolved oxygen (DO), oxidation reduction potential (ORP), temperature, potential hydrogen level (pH), electrical conductivity, and turbidity. Current and historical groundwater analytical results are presented in **Table 2** and **Table 3**, respectively. An area plan showing the Site and surrounding areas is presented as **Figure 2** and a site plan showing the detailed site configuration and monitoring well locations is presented as **Figure 3**. Site background information is included as **Appendix B**.

SUMMARY DATA

Monitoring Details

Monitoring Wells:	Onsite: 8	Offsite: 3
	Wells gauged: 11	Wells sampled: 8
Extraction Wells:	Onsite: 3	Offsite: 0
	Wells gauged: 3	Wells sampled: 2
Observation Wells:	Onsite: 4	Offsite: 0
	Wells gauged: 4	Wells sampled: 0
Purging Method:	Low-flow with peristaltic pump & dedicated tubing	
Sampling Method:	Grab	
Purge Water Disposal:	Onsite drum, pending disposal (5.3 gallons)	
Wells with LPH:	4	
LPH Thickness:	Sheen to 0.04 feet	
Current Remediation Method:	Passive skimming and manual bailing	

Hydrological Parameters

Depth to Groundwater (below TOC):	Range: 10.04 to 13.30 feet
Groundwater Elevation	Range: 498.12 to 499.89 feet amsl
Groundwater Flow Direction:	West-northwest
Groundwater Gradient:	0.005 ft/ft
Average Groundwater Level Change:	0.91 feet decrease

Select Analytical Results (Table 2)

Wells with TPH-Gx: 5	Maximum: 89,000 µg/L (EW-2R)
Wells with Benzene: 6	Maximum: 3,400 µg/L (EW-4)

SECOND QUARTER 2024 GROUNDWATER MONITORING RESULTS

Groundwater analytical results and field measurements for the second quarter 2024 sampling event are presented in **Tables 2**, **3**, and **4**. **Figure 4** shows the monitoring well locations with the corresponding analytical results for TPH-Gx, benzene, and MTBE. Note that groundwater analytical results are compared to the DEQ RBCs for the Ingestion and Inhalation from Tapwater for the occupational worker scenario. Groundwater monitoring results are summarized below:

- The static groundwater level decreased an average of 0.91 feet since the previous monitoring event on March 27 and 28, 2024.
- As shown in **Table 2**, groundwater elevations ranged from 498.12 to 499.89 feet above mean sea level (amsl). The groundwater flow direction and gradient were calculated for the Site using data from Wells MW-3, MW-5, and MW-11. The flow direction is toward the west-northwest at an approximate gradient of 0.005 feet per foot (ft/ft), which is generally consistent with the prior groundwater monitoring event. The groundwater gradient, flow direction, and groundwater elevation contours are shown on **Figure 5**. A summary of historical groundwater flow direction and gradient data is presented in **Table 5** and a rose diagram showing all measured groundwater flow directions and gradients measured to date is presented as **Figure 6**.
- LPH was measured in Wells MW-1, MW-6, and EW-1R at thicknesses of 0.01 feet, 0.04 feet, and 0.03 feet respectively (**Figure 4**); LPH sheen was observed in Well MW-5.
- Dissolved-phase TPH-Gx was detected in five of the ten wells sampled at concentrations ranging from 170 micrograms per Liter (µg/L, MW-4) to 89,000 µg/L (EW-2R). Well MW-4 did not exceed the applicable DEQ RBC, but all other wells with detected TPH-Gx concentrations exceed the applicable DEQ RBC of 450 µg/L. TPH-Gx was not detected in the remaining wells sampled at concentrations greater than the laboratory reporting limit (RL).
- Benzene was detected in five of the ten wells sampled at concentrations ranging from 25 µg/L (MW-3) to 3,400 µg/L (EW-4), which exceed the applicable DEQ RBC of 2.1 µg/L. Benzene was not detected in the remaining wells sampled at concentrations greater than the laboratory RL (<1.0 µg/L).
- Toluene was detected in four wells at concentrations ranging from 12 µg/L (MW-7) to 19,000 µg/L (EW-2R). Concentrations detected at two of the wells exceed the DEQ RBC concentration of 6,300 µg/L for toluene with detected concentrations of 19,000 µg/L (EW-2R) and 16,000 µg/L (EW-4).

- Ethylbenzene was detected in four wells at concentrations ranging from 200 μg/L (MW-7) to 2,000 μg/L (EW-2R), all of which exceed the applicable DEQ RBC of 6.4 μg/L for ethylbenzene.
- Total xylenes were detected in five wells at concentrations ranging from 20 μg/L (MW-4) to 20,000 μg/L (EW-2R). The concentrations of total xylenes in four of the five wells exceed the applicable DEQ RBC of 830 μg/L. Total xylenes were not detected in the remaining wells sampled at concentrations greater than laboratory RL (<2.0 μg/L).
- MTBE was not detected in any of the wells sampled at concentrations greater than the laboratory RL. Note that the laboratory RL for MTBE is 5.0 μg/L.
- Naphthalene was detected in five wells at concentrations ranging from 15 μg/L (MW-4) to 800 μg/L (EW-2R), all of which exceed the DEQ RBC of 0.72 μg/L. 1-methyl naphthalene and 2-methyl naphthalene were detected in several wells at concentrations ranging from 19 μg/L to 83 μg/L and 8.2 μg/L to 140 μg/L, respectively; DEQ RBCs are not specified for 1-methyl naphthalene and 2-methyl naphthalene. EDB was not detected in any of the wells sampled at concentrations greater than the laboratory RL (<0.010 μg/L). EDC was not detected in any of the wells sampled at concentrations greater than the laboratory RL (<1.0 μg/L).
- Lead was not detected in in any of the wells sampled at concentrations greater than the laboratory RL (<5.0 μg/L).
- Contaminants of concern (COCs) were not detected in either equipment blank (EB-1 and EB-2) or in the trip blank sample (TB-1).

Field measurements of DO levels ranged from 0.07 milligrams per liter (mg/L) at Well MW-2 to 6.68 mg/L at Well MW-11. ORP levels ranged from -318.4 millivolts (mV) measured at Well MW-2 to 540.0 mV at Well MW-9.

A copy of the laboratory analytical report is provided as **Appendix C**. Groundwater monitoring field forms are provided as **Appendix D**. Montrose's Monitoring Well Sampling Protocols are included as **Appendix E**. On May 13, 2024, one 55-gallon drum containing purge water associated with prior groundwater monitoring activities was removed from the site by Advanced Chemical Transport, Inc. and transported to an appropriate disposal/recycling facility. A copy of the waste manifest is included as **Appendix F**. Purge water generated during the groundwater monitoring event was placed into a 55-gallon drum and staged on site. When the drum is full arrangements will be made to have it transported to an appropriate disposal/recycling facility under manifest.

LPH REMOVAL

LPH removal activities were conducted on April 16, May 14 and 15, and June 11 and 12, 2024. During each LPH removal event, skimmers were removed from the wells, emptied, and volumes of LPH and groundwater recorded (**Appendix A** and **Appendix D**). The wells were then gauged and depths to LPH and groundwater recorded. For remaining wells containing measurable LPH, manual LPH removal was conducted using disposable polyethylene bailers.

The well gauging and LPH removal activities will continue on a periodic basis as long as measurable amounts of LPH are detected in wells at the Site. To date, approximately 360.41 gallons of LPH and 3,763.2 gallons of impacted groundwater have been removed from site wells during the LPH removal activities (**Table 1**).

HYDROCARBON TREND AND DISTRIBUTION ANALYSIS

A summary of current and historical groundwater sample analytical results is provided in **Tables 2** and **3**, respectively. Groundwater elevation and LPH thickness trends are shown on **Chart 1** and TPH-Gx and benzene concentration trends are shown in **Charts 2** and **3**, respectively.

The average groundwater elevation beneath the Site has decreased approximately 0.91 feet since March 27 and 28, 2024 (previous monitoring event). **Chart 1** shows a groundwater elevation low occurring between August and September 2023; with a similar drop in groundwater elevations occurring around the same time in 2022 and 2021. The annual fluctuation in groundwater elevation is well documented since late 2020, the beginning of the current data set.

Measurable LPH was present in three wells at thicknesses of 0.01 feet (MW-1), 0.04 ft (MW-6), and 0.03 ft (EW-1R) on June 12, 2024; a hydrocarbon sheen was present in Well MW-5. The distribution of LPH is currently centered near the USTs (confirmed source, historically) and LPH thicknesses exhibit a fluctuating but generally decreasing trend over the period of record (**Chart 1**). For example, the LPH thickness in Well MW-6 has decreased from a maximum thickness of 1.65 feet in March 2021 to 0.04 feet in June 2024. Similarly, the LPH thickness in Well MW-5 has decreased from a maximum thickness of 0.23 feet in August 2021 to a sheen in June 2024 (**Table 1**). Further changes in the distribution and thickness of LPH beneath the Site is expected over time and LPH recovery efforts will continue as long as LPH is detectable in site wells.

TPH-Gx concentrations in the Site monitoring wells sampled exhibit fluctuating trends but generally decreased since the previous monitoring event. For example, the TPH-Gx concentration in Well MW-4 decreased from a maximum concentration of 190,000 µg/L on March 30, 2021 to 4,000 µg/L on June 29, 2023, rebounded to 19,000 µg/L on September 19, 2023, and has since decreased to 170 µg/L on June 12, 2024 (**Table 3**). The TPH-Gx concentration in Well MW-7 decreased from a maximum concentration of 24,000 µg/L on October 12, 2022 to 3,900 µg/L (December 12, 2023), rebounded to 6,000 µg/L (March 27, 2024) and then decreased to 5,000 µg/L (June 11, 2024). The fluctuations in COC concentrations appear to be following a trend

of seasonal fluctuations where lows are typically seen during the winter months and highs are typically seen during the summer months. This trend is expected to continue with overall slight decreases until active remediation is implemented at the Site, at which time significant and permanent decreases in COC concentrations are expected.

Current LPH thicknesses and TPH-Gx, BTEX and MTBE concentrations are shown in **Figure 4** to illustrate the distribution of dissolved-phase hydrocarbons. As shown in **Figure 4**, LPH is present in Wells MW-1, MW-6, and EW-1R, located in the vicinity of the UST cavity, and a hydrocarbon sheen was present in Well MW-5, located downgradient of the UST cavity; the highest COC concentrations are present in Wells EW-2R and EW-4, located south of the USTs. COC concentrations have remained at non-detectible levels in perimeter Wells MW-8, MW-9, MW-10 and MW-11 and serve to delineate the plume to the west, northwest, north and southeast.

CONCLUSION AND RECOMMENDATIONS

Based on the second quarter 2024 groundwater monitoring event results, LPH is present in onsite Wells MW-1, MW-6, and EW-1R and hydrocarbon sheen is present in Well MW-5. Dissolved-phase hydrocarbon concentrations in groundwater samples collected from Wells MW-2, MW-3, MW-4, MW-7, EW-2R, and EW-4 exceed applicable DEQ RBCs for the Ingestion and Inhalation from Tapwater for the occupational worker scenario. Results from perimeter Wells MW-8 through MW-11 define the groundwater plume to the west, northwest, north and southeast and continued monitoring of these wells is recommended to monitor the limits of the plume.

As requested by the DEQ, one additional offsite monitoring well and two soil vapor probes are proposed to further investigate impacts at the site (**Figure 2**) and one monitoring well, located east of MW-1, that was precleared during prior assessment activities remains to be installed to define the plume to the east. Installation of the wells and vapor points will proceed when access authorization from the adjacent property owner is secured.

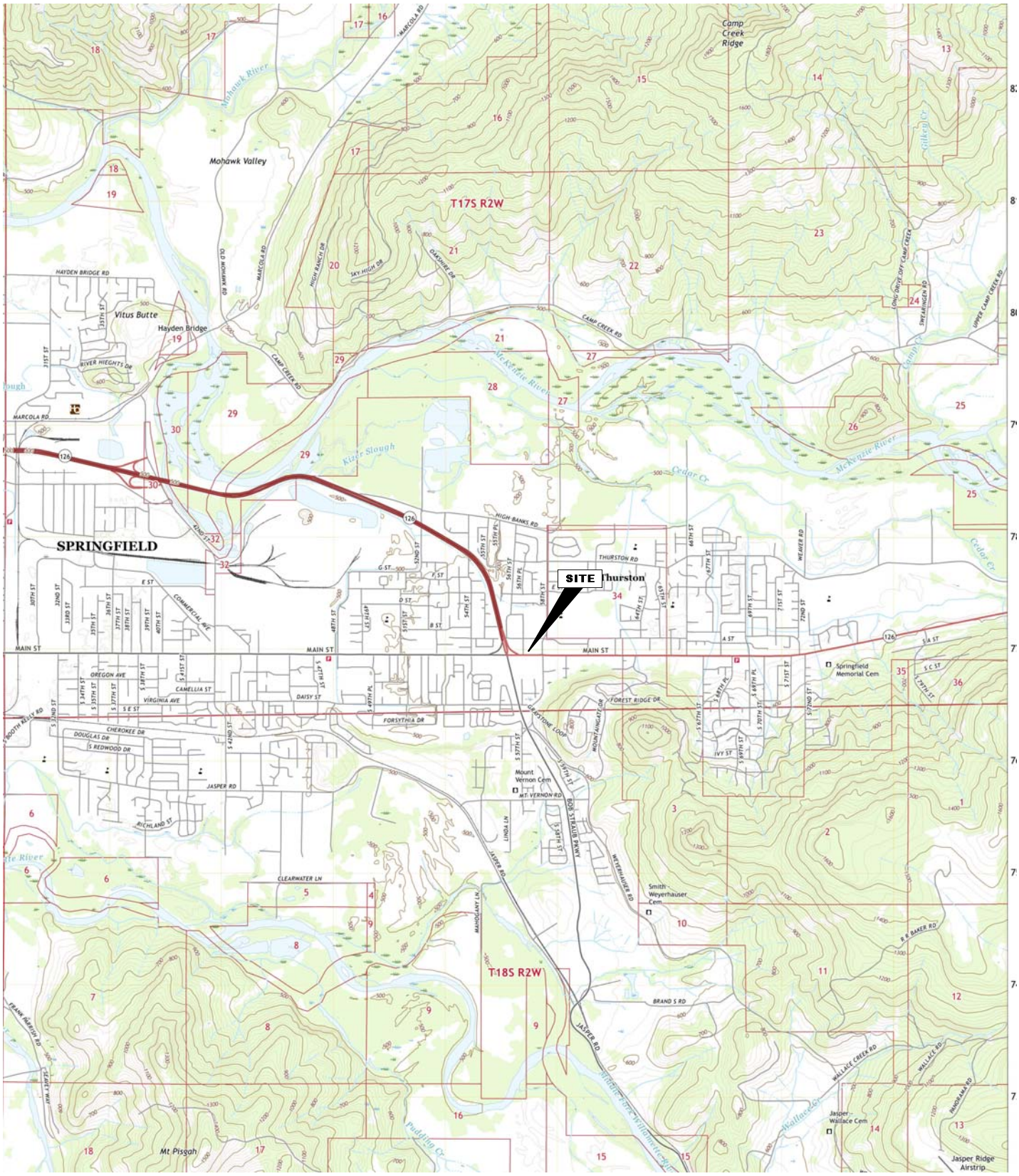
Montrose has sourced remediation equipment and utility providers necessary to implement the TPE pilot test as proposed in the Workplan for Remedial Pilot Testing (December 5, 2022). Approval to construct and operate the SVE system was received from LRAPA and temporary discharge authorization was received from the City to support the pilot testing. Plans for construction and utility installations are in review with UP. Montrose will update the DEQ on the procurement progress and will provide notification prior to commencing field activities. Montrose recommends continuing monthly LPH gauging and removal activities to recover LPH from Site wells and quarterly groundwater monitoring to evaluate groundwater quality beneath the Site. The next groundwater monitoring event is planned for the third quarter of 2024 (September 2024).

Montrose is pleased to be of service to UP and the DEQ. If there are questions regarding this report or if additional site information is required, please do not hesitate to contact Montrose at (714) 919-6500.

ACRONYMS:

amsl:	above mean sea level
bgs:	below ground surface
BTEX:	benzene, toluene, ethylbenzene, and total xylenes
btoc:	below top of casing
°C:	degrees Celsius
DEQ:	Oregon Department of Environmental Quality
DO:	dissolved oxygen
DTW:	depth to water
EW:	extraction well
GW Δ:	change (difference) in water elevation since last measurement
Fe^{2+}:	ferrous iron
ft:	feet
ft/ft:	feet per foot
GW:	groundwater
µg/L:	micrograms per Liter
µs/cm:	microsiemens per centimeter
LPH:	liquid phase hydrocarbons
mg/L	milligrams per Liter
MTBE:	methyl tert-butyl ether
mV:	millivolts
MW:	monitoring well
na:	not applicable/not analyzed
nm:	not measured
ns:	not sampled
NTU:	Nephelometric Turbidity Unit
ORP:	oxidation reduction potential
pH:	potential hydrogen
ppm:	parts per million
PQL:	practical quantitation limit
RBC:	Risk based concentration
RL:	reporting limit
TPH-Dx:	total diesel-range petroleum hydrocarbons
TPH-Gx:	total gasoline-range petroleum hydrocarbons
TPH-Ox:	total lube oil-range petroleum hydrocarbons
UST:	underground storage tank
VOCs:	volatile organic compounds

FIGURES



Map Information:
U.S. GEOLOGICAL SURVEY
SPRINGFIELD QUADRANGLE
44°02'46.0"N 122°55'43.0"W

MONTROSE ENVIRONMENTAL
1631 E. Saint Andrew Place, Santa Ana, CA 92705 | t 714.919.6500

N

0 4000

APPROX. SCALE: 1" = 4000'

FIGURE 1

SITE LOCATION MAP

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN
11/10/2022

PROJECT NO.
006811

FILE NO.
006811F1-SLM

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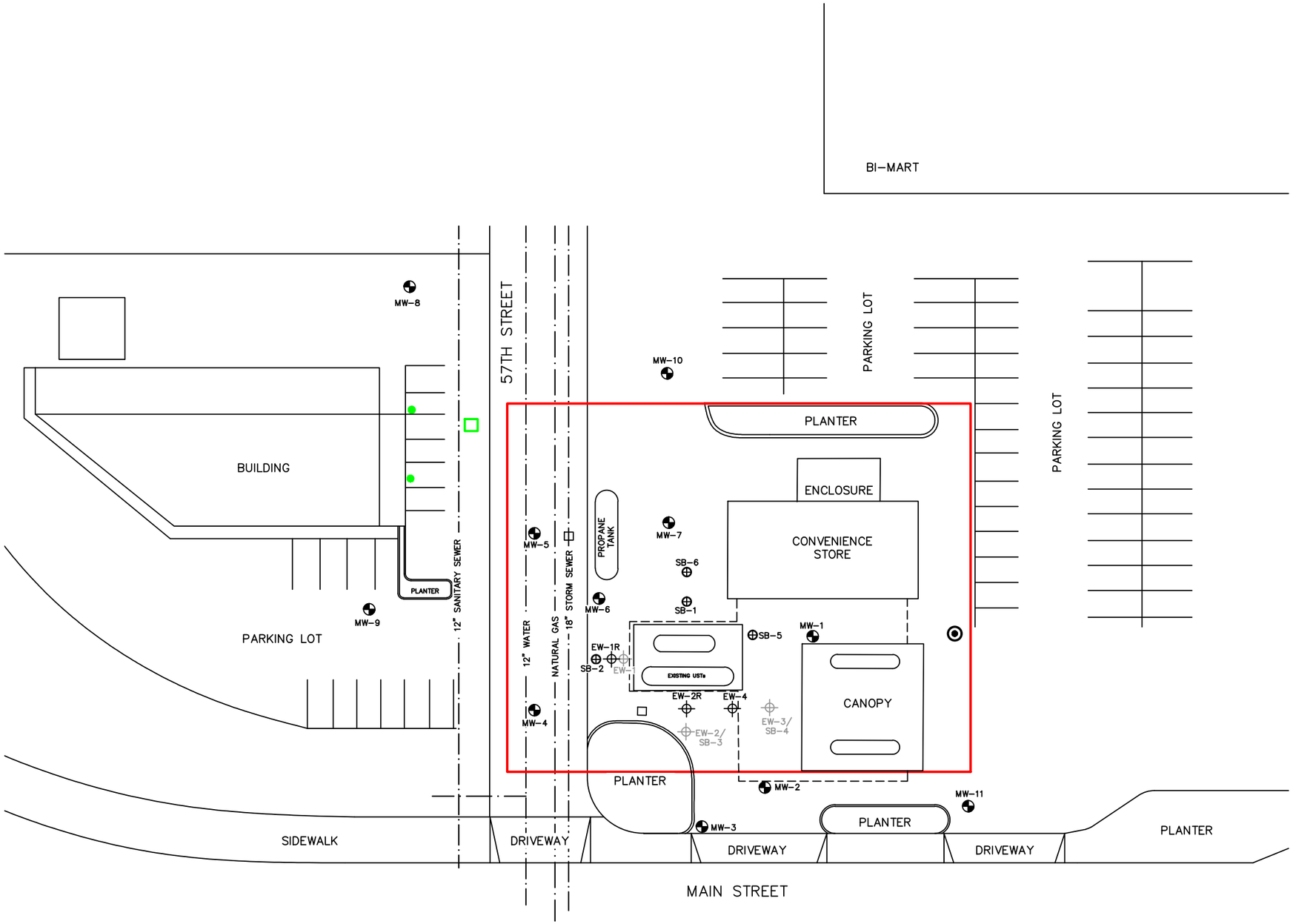

LEGEND

- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- DESTROYED EXTRACTION WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED VAPOR PROBE LOCATION
- PRECLEARED PROPOSED WELL LOCATION (MW-12)

N

40 0 40

APPROXIMATE SCALE: 1" = 40'

SOURCE: GOOGLE EARTH 2020

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1631 E. Saint Andrew Place, Santa Ana, CA 92705 | t 714.919.6500

FIGURE 2

AREA PLAN

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN
05/28/2024

PROJECT NO.
027409

FILE NO.
027409F2-AP

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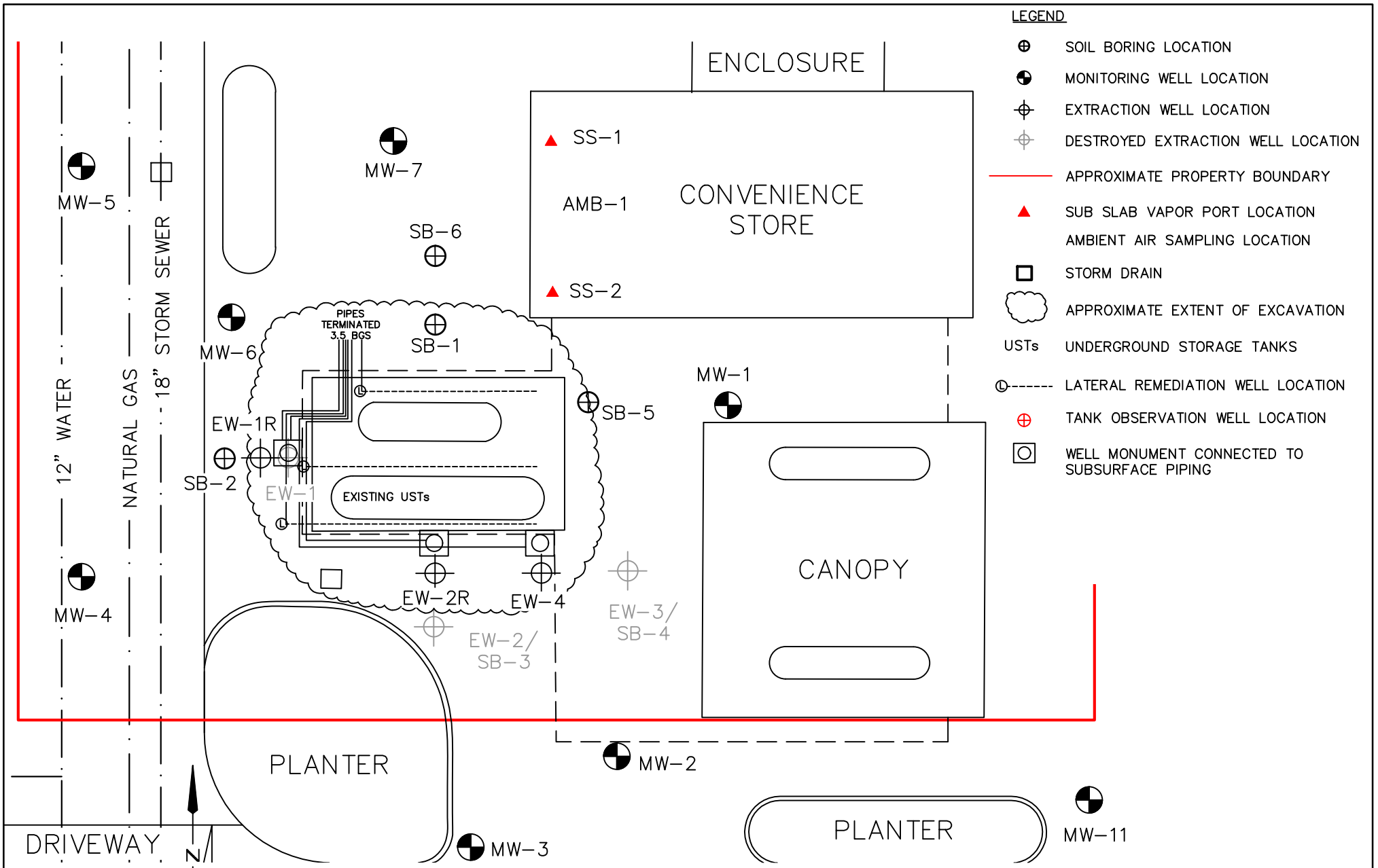

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FIGURE 3

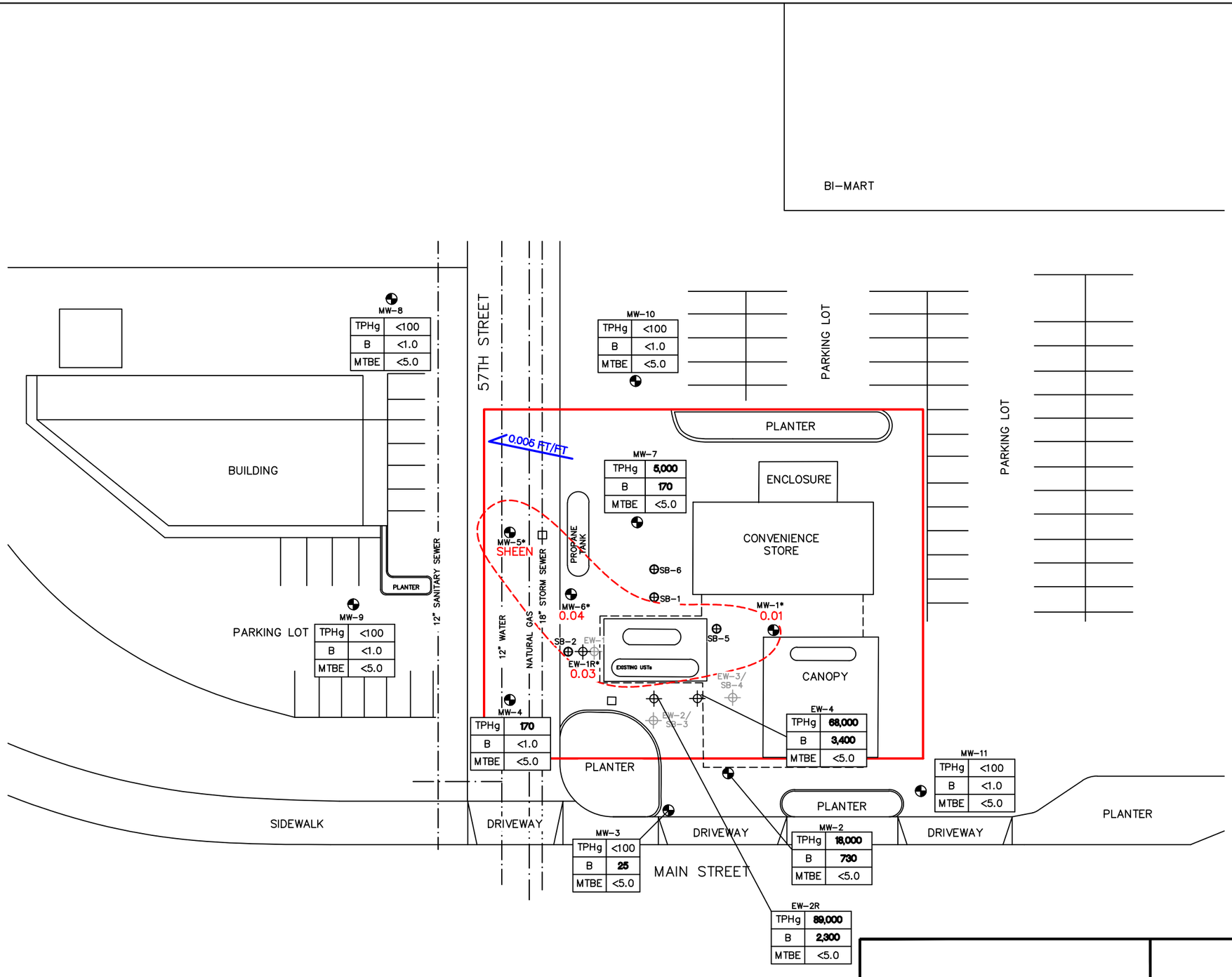
SITE PLAN

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN
5/23/2024

PROJECT NO.
004668

FILE NO.
004668F3-SP



LEGEND

- ⊕ SOIL BORING LOCATION
- ◒ MONITORING WELL LOCATION
- ⊕ EXTRACTION WELL LOCATION
- ⊕ DESTROYED EXTRACTION WELL LOCATION
- APPROXIMATE PROPERTY BOUNDARY
- □ STORM DRAIN
- 0.008 FT/FT — APPROXIMATE GROUNDWATER DIRECTION AND MAGNITUDE IN FEET PER FOOT
- USTs — UNDERGROUND STORAGE TANKS
- LPH — LIQUID PHASE HYDROCARBONS
- APPROXIMATE CURRENT EXTENT OF LPH
- 0.01 — FEET OF LPH IN WELL
- <5.0 — COMPOUND NOT DETECTED AT OR ABOVE LABORATORY METHOD REPORTING LIMIT
- TPHg — TOTAL GASOLINE-RANGE PETROLEUM HYDROCARBONS
- B — BENZENE
- MTBE — METHYL TERT-BUTYL ETHER
- ug/L — MICROGRAMS PER LITER
- * — NOT SAMPLED DUE TO LPH PRESENCE
- SHEEN — SHEEN WAS OBSERVED
- **BOLD** — DETECTION EXCEEDS RISK BASED CONCENTRATION (RBC)

N

40 0 40

APPROXIMATE SCALE: 1" = 40'

SOURCE: GOOGLE EARTH 2020

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1631 E. Saint Andrew Place, Santa Ana, CA 92705 | t 714.919.6500

FIGURE 4

GROUNDWATER ANALYTICAL MAP
JUNE 11 & 12, 2024

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN
07/03/2024

PROJECT NO.
027409

FILE NO.
027409F4-GAR

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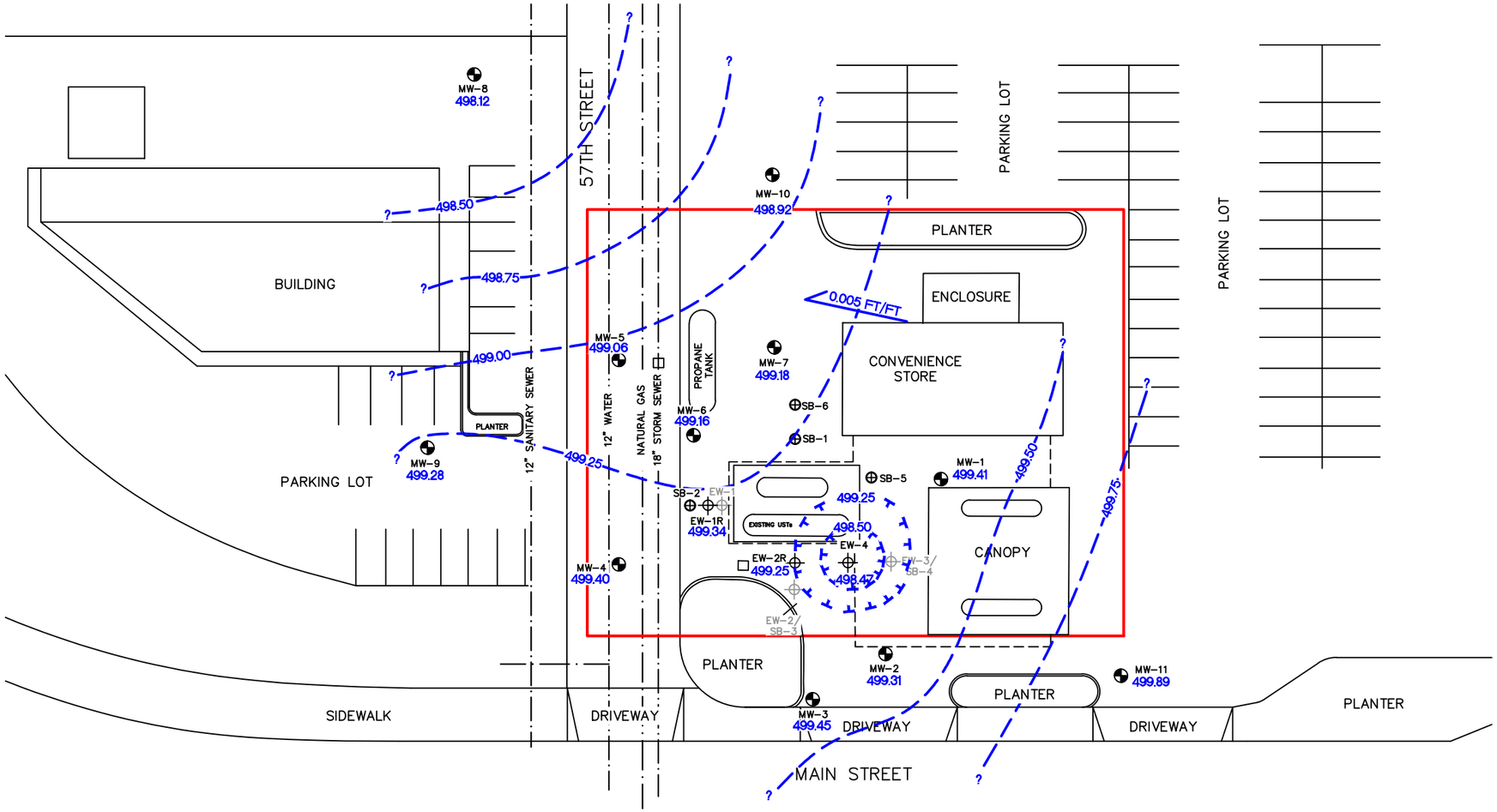

LEGEND

- ⊕ SOIL BORING LOCATION
- ◒ MONITORING WELL LOCATION
- ⊕ EXTRACTION WELL LOCATION
- ⊕ DESTROYED EXTRACTION WELL LOCATION
- APPROXIMATE PROPERTY BOUNDARY
- □ STORM DRAIN
- 0.008 FT/FT — APPROXIMATE GROUNDWATER DIRECTION AND MAGNITUDE IN FEET PER FOOT
- USTs — UNDERGROUND STORAGE TANKS
- 499.17 — GROUNDWATER ELEVATION IN FEET AMSL
- AMSL — ABOVE MEAN SEA LEVEL
- APPROXIMATE GROUNDWATER CONTOUR IN FEET AMSL; DASHED WHERE INFERRED
- DEPRESSION CONTOUR

NOTE: WELLS MW–3, MW–5 AND MW–11 USED TO CALCULATE GROUNDWATER FLOW DIRECTION AND GRADIENT

N

40 0 40

APPROXIMATE SCALE: 1" = 40'

SOURCE: GOOGLE EARTH 2020

MONTROSE ENVIRONMENTAL
1631 E. Saint Andrew Place, Santa Ana, CA 92705 | t 714.919.6500

FIGURE 5

GROUNDWATER CONTOUR MAP JUNE 11 & 12, 2024

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN 7/3/2024

PROJECT NO. 027409

FILE NO. 027409F5–GCM

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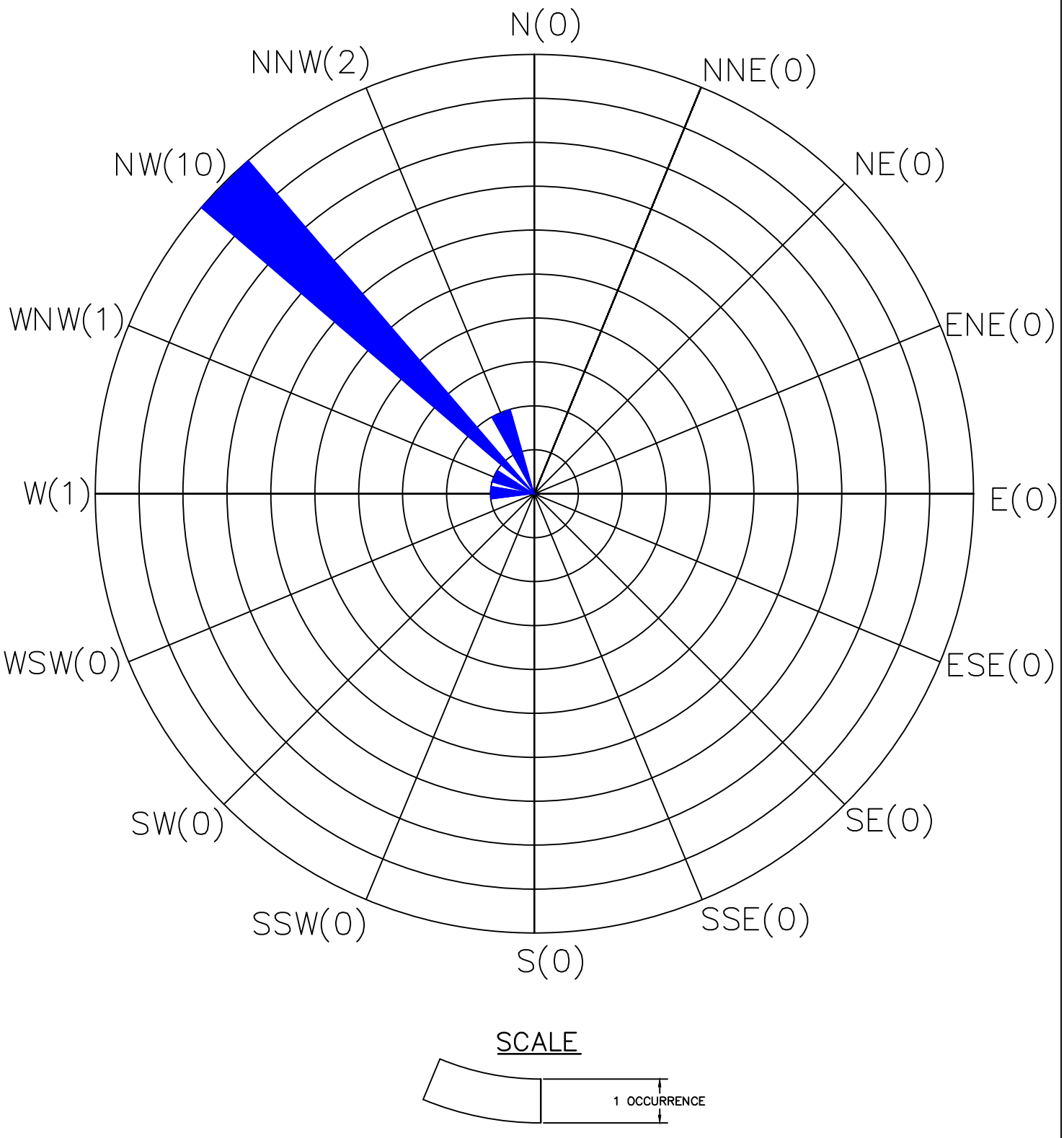

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FIGURE 6

GROUNDWATER FLOW DIRECTION
ROSE DIAGRAM

United Pacific #5468
5720 Main Street,
Springfield, OR 97478

DATE DRAWN
7/03/2024

PROJECT NO.
027409

FILE NO.
027409F6-RD

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TABLES

Table 1
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
Page 1 of 5

Well ID	Date Measured	TOC Elevation (ft amsl)	Depth to LPH (ft btoc)	Depth to Water (ft btoc)	LPH Thickness (ft)	Thickness Change (ft)	Groundwater Elevation [1] (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)
EW-1	11/19/20[3]	510.97	--	11.05	--	--	499.92	--	--	--	700.0	700.0
	01/13/21[3]		--	10.48	--	--	500.49	0.57	--	--	--	700.0
	01/27/21[4]		10.70	10.92	0.22	0.22	500.22	-0.27	0.35	0.35	1.4	701.4
	02/03/21[3]		10.55	10.57	0.02	-0.20	500.42	0.20	5.00	5.35	50.0	751.4
	02/25/21[5]		10.55	10.59	0.04	0.02	500.41	0.00	0.25	5.60	3.0	754.4
	03/30/21		11.05	11.14	0.09	0.05	499.90	-0.51	0.00	5.60	0.0	754.4
	04/20/21		11.55	11.73	0.18	0.09	499.38	-0.52	0.00	5.60	0.0	754.4
	05/20/21[7]		11.80	11.94	0.14	-0.04	499.14	-0.24	15.00	20.60	135.0	889.4
	06/08/21		--	11.73	0.00	-0.14	499.24	0.10	0.00	20.60	0.0	889.4
	06/23/21[8]		--	11.74	0.00	0.00	499.23	-0.01	0.00	20.60	1.7	891.1
	07/08/21		--	11.96	0.00	0.00	499.01	-0.22	0.00	20.60	0.0	891.1
	07/22/21		12.11	12.12	0.01	0.01	498.86	-0.15	0.25	20.85	1.0	892.1
	08/05/21		--	12.18	0.00	-0.01	498.79	-0.07	0.00	20.85	0.0	892.1
	08/18/21		--	12.29	0.00	0.00	498.68	-0.11	0.00	20.85	0.0	892.1
	09/01/21		--	12.26	0.00	0.00	498.71	0.03	0.00	20.85	0.0	892.1
	09/22/21		--	11.72	0.00	0.00	499.25	0.54	0.00	20.85	1.4	893.5
	10/06/21		--	11.40	0.00	0.00	499.57	0.32	0.00	20.85	0.0	893.5
	10/20/21		--	11.37	0.00	0.00	499.60	0.03	0.00	20.85	0.0	893.5
	11/03/21		--	11.02	0.00	0.00	499.95	0.35	0.00	20.85	0.0	893.5
	11/17/21		--	10.81	0.00	0.00	500.16	0.21	0.00	20.85	0.0	893.5
	12/08/21		--	10.68	0.00	0.00	500.29	0.13	0.00	20.85	0.0	893.5
	12/22/21		--	9.90	0.00	0.00	501.07	0.78	0.00	20.85	0.0	893.5
	01/11/22		--	10.20	0.00	0.00	500.77	-0.30	0.00	20.85	0.0	893.5
	01/26/22		--	10.37	0.00	0.00	500.60	-0.17	0.00	20.85	0.0	893.5
	02/07/22		--	10.26	0.00	0.00	500.71	0.11	0.00	20.85	0.0	893.5
	Well Decommissioned on 02/08/22											
EW-1R	10/12/22[4]	510.86	12.17	12.19	0.02	--	498.69	--	0.10	0.10	2.0	2.0
	11/14/22		--	10.90	0.00	-0.02	499.96	1.27	0.00	0.10	0.0	2.0
	12/19/22		--	11.32	0.00	0.00	499.54	-0.42	0.00	0.10	3.0	5.0
	01/18/23		--	10.91	0.00	0.00	499.95	0.41	0.00	0.10	0.0	5.0
	02/28/23		--	10.69	0.00	0.00	500.17	0.22	0.00	0.10	0.0	5.0
	03/27/23		--	10.35	0.00	0.00	500.51	0.34	1.00	1.10	5.5	10.5
	01/18/23		--	10.91	0.00	0.00	499.95	-0.56	0.00	0.00	0.0	10.5
	02/23/23[5]		--	10.69	0.00	0.00	500.17	0.22	0.00	0.00	0.0	10.5
	03/27/23[5]		--	10.35	0.00	0.00	500.51	0.34	0.00	0.00	0.0	10.5
	04/06/23[5]		10.10	10.11	0.01	0.01	500.76	0.25	0.20	1.30	1.3	11.8
	05/09/23		--	10.53	0.00	0.00	500.33	-0.43	0.00	1.30	3.0	14.8
	06/29/23		--	11.82	0.00	0.00	499.04	-1.29	0.00	1.30	0.0	14.8
	07/27/23		--	12.11	0.00	0.00	498.75	-0.29	0.00	1.30	0.25	15.1
	08/10/23		12.32	12.33	0.01	0.01	498.54	-0.21	0.10	1.40	2.4	17.5
	09/19/23		12.30	12.45	0.15	0.14	498.52	-0.01	0.15	1.55	3.3	20.7
	10/25/23		11.38	11.45	0.07	-0.08	499.46	0.94	0.10	1.65	3.0	23.7
	11/21/23		11.23	11.25	0.02	-0.05	499.63	0.16	0.05	1.70	1.05	24.8
	12/13/23		--	10.18	Sheen	-0.02	500.68	1.05	0.01	1.71	1.75	26.5
	01/30/24		--	9.66	0.00	0.00	501.20	0.52	0.00	1.71	1.75	28.3
	02/28/24		--	10.37	Sheen	0.00	500.49	-0.71	0.00	1.71	2.25	30.5
	03/28/24		10.43	10.44	0.01	0.01	500.43	-0.06	0.01	1.72	2.00	32.5
	04/16/24[4]		--	10.74	Sheen	-0.01	500.12	-0.31	0.00	1.72	2.60	35.1
	05/15/24[4]		--	10.56	0.00	0.00	500.30	0.18	0.00	1.72	2.70	37.8
	06/12/24[4]		11.51	11.54	0.03	0.03	499.34	-0.96	0.05	1.77	1.95	39.8
EW-2	11/19/20[3]	510.90	11.20	11.68	0.48	--	499.59	--	32.5	32.50	617.5[2]	617.5
	01/13/21[3]		10.22	12.05	1.83	1.35	500.25	0.66	5.00	37.50	45.0	662.5
	01/27/21[4]		10.50	12.35	1.85	0.02	499.97	-0.28	2.60	40.10	2.4	664.9
	02/03/21[3]		10.77	11.37	0.60	-1.25	499.99	0.02	23.00	63.10	209.0	873.9
	02/25/21[5]		10.74	11.10	0.36	-0.24	500.08	0.09	0.50	63.60	0.0	873.9
	03/30/21		11.20	11.28	0.08	-0.28	499.68	-0.39	0.03	63.63	0.0	873.9
	04/20/21		11.74	11.93	0.19	0.11	499.12	-0.57	0.00	63.63	0.0	873.9
	05/20/21[7]		11.95	12.20	0.25	0.06	498.89	-0.22	15.00	78.63	135.0	1,008.9
	06/08/21[4]		11.90	12.00	0.10	-0.15	498.98	0.09	0.25	78.88	4.0	1,012.9
	06/23/21[4]		11.88	12.07	0.19	0.09	498.98	0.00	0.40	79.28	4.2	1,017.1
	07/08/21[9]		12.12	12.17	0.05	-0.14	498.77	-0.21	0.26	79.54	3.2	1,020.3
	07/22/21		--	12.28	0.00	-0.05	498.62	-0.15	0.00	79.54	0.0	1,020.3
	08/05/21[4]		12.32	12.33	0.01	0.01	498.58	-0.04	0.10	79.64	0.4	1,020.7
	08/18/21[4]		12.48	12.50	0.02	0.01	498.42	-0.16	0.10	79.74	1.0	1,021.7
	09/01/21[4]		12.40	12.42	0.02	0.00	498.50	0.08	0.10	79.84	1.0	1,022.7
	09/22/21[4]		11.84	11.87	0.03	0.01	499.05	0.56	0.20	80.04	3.0	1,025.7
	10/06/21		11.55	11.59	0.04	0.01	499.34	0.29	0.25	80.29	2.0	1,027.7
	10/20/21[4,5]		11.52	11.63	0.11	0.07	499.35	0.01	0.25	80.54	3.0	1,030.7
	11/03/21		--	11.19	0.00	-0.11	499.71	0.36	0.00	80.54	0.0	1,030.7
	11/17/21		--	11.02	0.00	0.00	499.88	0.17	0.00	80.54	0.0	1,030.7
	12/08/21[7]		10.95	10.97	0.02	0.02	499.95	0.07	1.30	81.84	128.7	1,159.4
	12/22/21		10.20	10.22	0.02	0.00	500.70	0.75	0.13	81.97	0.0	1,159.4
	01/11/22		10.00	11.96	1.96	1.94	500.44	-0.26	6.60	88.57	2.4	1,161.8
	01/26/22[7]		10.95	12.00	1.05	-0.91	499.70	-0.74	11.60	100.17	20.0	1,181.8
	02/07/22		9.98	11.99	2.01	0.96	500.45	0.74	1.59	101.76	0.0	1,181.8
	Well Decommissioned on 02/08/22											

Table 1
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Summary of LPH Removal
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Well ID	Date Measured	TOC Elevation (ft amsl)	Depth to LPH (ft btoc)	Depth to Water (ft btoc)	LPH Thickness (ft)	Thickness Change (ft)	Groundwater Elevation [1] (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)
EW-2R	10/12/22[4]	510.91	12.32	12.34	0.02	--	498.59	--	0.20	0.20	3.0	3.0
	11/14/22		--	10.94	0.00	-0.02	499.97	1.38	0.00	0.20	0.0	3.0
	12/19/22		11.53	11.54	0.01	0.01	499.38	-0.59	0.50	0.70	6.0	9.0
	01/18/23[4]		11.11	11.12	0.01	0.00	499.80	0.42	0.13	0.83	4.0	13.0
	02/28/23		--	10.93	0.00	0.00	499.98	0.18	0.00	0.83	0.0	13.0
	03/27/23		--	10.53	0.00	0.00	500.38	0.40	0.00	0.83	0.0	13.0
	04/06/23		--	10.32	0.00	0.00	500.59	0.21	0.00	0.83	0.0	13.0
	05/09/23		--	10.59	0.00	0.00	500.32	-0.27	0.00	0.83	0.0	13.0
	06/29/23		--	12.17	0.00	0.00	498.74	-1.58	0.00	0.83	0.0	13.0
	07/27/23		--	12.74	0.00	0.00	498.17	-0.57	0.00	0.83	0.0	13.0
	08/10/23		--	12.44	0.00	0.00	498.47	0.30	0.00	0.83	0.0	13.0
	09/19/23		--	12.46	0.00	0.00	498.45	-0.02	0.00	0.83	0.0	13.0
	10/25/23		--	11.60	0.00	0.00	499.31	0.86	0.00	0.83	0.1	13.1
	11/21/23		--	11.37	0.00	0.00	499.54	0.23	0.00	0.83	0.2	13.3
	12/13/23		--	10.44	0.00	0.00	500.47	0.93	0.00	0.83	0.0	13.3
	01/30/24		--	9.96	0.00	0.00	500.95	0.48	0.00	0.83	0.0	13.3
	02/27/24		--	10.63	0.00	0.00	500.28	-0.67	0.00	0.83	0.0	13.3
	03/28/24		--	10.65	0.00	0.00	500.26	-0.02	0.00	0.83	0.0	13.3
	04/16/24		--	10.89	0.00	0.00	500.02	-0.24	0.00	0.83	0.0	13.3
	05/14/24		--	10.76	0.00	0.00	500.15	0.13	0.00	0.83	0.0	13.3
	06/12/24		--	11.66	0.00	0.00	499.25	-0.90	0.00	0.83	0.0	13.3
EW-3	11/19/20[3]	511.63	12.02	12.45	0.43	--	499.51	--	32.5	32.50	617.5[2]	617.5
	01/13/21[3]		11.13	11.29	0.16	-0.27	500.46	0.95	5.00	37.50	45.0	662.5
	01/27/21[4]		11.36	11.68	0.32	0.16	500.19	-0.27	0.60	38.10	3.9	666.4
	02/03/21[3]		12.79	12.89	0.10	-0.22	498.82	-1.38	16.00	54.10	149.0	815.4
	02/25/21[5]		ND	11.39	0.00	-0.10	500.24	1.42	0.00	54.10	0.0	815.4
	03/30/21		11.68	11.90	0.22	0.22	499.90	-0.34	0.07	54.17	1.5	816.9
	04/20/21[4]		12.25	12.64	0.39	0.17	499.29	-0.61	0.00	54.17	0.0	816.9
	05/20/21[7]		12.42	12.84	0.42	0.03	499.11	-0.18	15.00	69.17	135.0	951.9
	06/08/21		--	12.44	0.00	-0.42	499.19	0.08	0.00	69.17	0.0	951.9
	06/23/21[4]		12.40	12.41	0.01	0.01	499.23	0.04	0.07	69.24	0.5	952.4
	07/8/21[4]		12.62	12.71	0.09	0.08	498.99	-0.24	0.40	69.64	0.8	953.2
	07/22/21[4]		12.80	12.94	0.14	0.05	498.80	-0.19	1.00	70.64	4.0	957.2
	08/05/21[4]		12.86	13.07	0.21	0.07	498.72	-0.08	0.50	71.14	2.0	959.2
	08/18/21[4]		13.01	13.20	0.19	-0.02	498.58	-0.15	1.50	72.64	2.0	961.2
	09/01/21[4]		13.00	13.14	0.14	-0.05	498.60	0.02	0.25	72.89	1.5	962.7
	09/22/21[4]		12.36	12.45	0.09	-0.05	499.25	0.65	0.40	73.29	4.0	966.7
	10/06/21		--	12.16	0.00	-0.09	499.47	0.22	0.00	73.29	0.0	966.7
	10/20/21[4,5]		12.08	12.12	0.00	0.00	499.51	0.04	0.10	73.39	3.0	969.7
	11/03/21		--	11.75	0.00	0.00	499.88	0.37	0.00	73.39	0.0	969.7
	11/17/21		--	11.55	0.00	0.00	500.08	0.20	0.00	73.39	0.0	969.7
	12/08/21		--	11.44	0.00	0.00	500.19	0.11	0.00	73.39	0.0	969.7
	12/22/21		10.76	10.77	0.01	0.01	500.87	0.68	0.13	73.52	0.3	970.0
	01/11/22		11.43	11.44	0.01	0.00	500.20	-0.67	0.16	73.68	2.9	972.9
	01/26/22		--	11.73	0.00	-0.01	499.90	-0.30	0.00	73.68	0.0	972.9
	02/07/22		11.39	11.51	0.12	0.12	500.21	0.31	0.80	74.48	0.8	973.7
	Well Decommissioned on 02/07/22											
EW-4	10/12/22[4]	511.52	12.89	12.90	0.01	--	498.63	--	0.10	0.10	2.0	2.0
	11/14/22		--	10.97	0.00	-0.01	500.55	1.92	0.00	0.10	0.0	2.0
	12/19/22[4,5]		12.08	12.30	0.22	0.22	499.39	-1.16	1.00	1.10	8.0	10.0
	01/18/23[4]		11.67	11.68	0.01	-0.21	499.85	0.46	0.50	1.60	4.5	14.5
	02/28/23[5]		--	11.60	0.00	-0.01	499.92	0.07	0.00	1.60	1.5	16.0
	03/27/23		--	11.20	0.00	0.00	500.32	0.40	1.60	3.20	4.9	20.9
	04/06/23		--	11.00	0.00	0.00	500.52	0.20	0.10	3.30	1.4	22.3
	05/09/23		10.60	10.62	0.02	0.02	500.92	0.40	0.30	3.60	3.0	25.3
	06/29/23		--	12.72	0.00	-0.02	498.80	-2.12	0.00	3.60	0.0	25.3
	07/27/23		--	12.81	0.00	0.00	498.71	-0.09	0.00	3.60	0.0	25.3
	08/10/23		--	13.04	0.00	0.00	498.48	-0.23	0.00	3.60	0.0	25.3
	09/19/23		--	13.07	0.00	0.00	498.45	-0.03	0.00	3.60	0.0	25.3
	10/25/23		--	12.19	0.00	0.00	499.33	0.88	0.00	3.60	0.0	25.3
	11/21/23		--	12.01	0.00	0.00	499.51	0.18	0.00	3.60	0.0	25.3
	12/13/23		--	9.29	0.00	0.00	502.23	2.72	0.00	3.60	0.0	25.3
	01/30/24		--	10.51	0.00	0.00	501.01	-1.22	0.00	3.60	0.0	25.3
	02/27/24		--	11.19	0.00	0.00	500.33	-0.68	0.00	3.60	0.5	25.8
	03/28/24		--	11.20	0.00	0.00	500.32	-0.01	0.00	3.60	0.0	25.8
	04/16/24		--	11.45	0.00	0.00	500.07	-0.25	0.00	3.60	0.0	25.8
	05/14/24		--	11.34	0.00	0.00	500.18	0.11	0.00	3.60	0.0	25.8
	06/12/24		--	12.20	0.00	0.00	499.32	-0.86	0.00	3.60	0.0	25.8
MW-1	03/30/21	512.70	12.78	12.79	0.01	--	499.92	--	0.00	0.00	0.0	0.0
	04/20/21		13.40	13.59	0.19	0.18	499.26	-0.66	0.00	0.00	0.0	0.0
	05/20/21[7]		13.61	13.95	0.34	0.15	499.01	-0.25	15.00	15.00	135.0	135.0
	06/08/21[4]		13.59	13.86	0.27	-0.07	499.05	0.04	2.00	17.00	2.0	137.0
	06/23/21[4]		13.55	13.83	0.28	0.01	499.08	0.04	0.40	17.40	2.1	139.1
	07/8/21[4,5]		13.76	14.15	0.39	0.11	498.85	-0.24	2.10	19.50	0.8	139.9
	07/22/21		13.95	14.22	0.27	-0.12	498.69	-0.16	2.50	22.00	3.0	142.9
	08/05/21		14.02	14.27	0.25	-0.02	498.62	-0.07	2.00	24.00	2.0	144.9
	08/18/21		14.17	14.25	0.08	-0.17	498.51	-0.11	2.00	26.00	1.5	146.4
	09/01/21[9]		14.15	14.16	0.01	-0.07	498.55	0.04	0.10	26.10	1.0	147.4
	09/22/21[4]		13.56	13.57	0.01	0.00	499.14	0.59	0.10	26.20	1.0	148.4
	10/06/21		--	13.18	0.00	-0.01	499.52	0.38	0.00	26.20	0.0	148.4
	10/20/21		--	13.23	0.00	0.00	499.47	-0.05	0.00	26.20	0.0	148.4
	11/03/21		--	12.80	0.00	0.00	499.90	0.43	0.00	26.20	0.0	148.4

Table 1
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Well ID	Date Measured	TOC Elevation (ft amsl)	Depth to LPH (ft btoc)	Depth to Water (ft btoc)	LPH Thickness (ft)	Thickness Change (ft)	Groundwater Elevation [1] (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)
MW-1 Cont.	11/17/21	512.70	--	12.39	0.00	0.00	500.31	0.41	0.00	26.20	0.0	148.4
	12/08/21		--	12.47	0.00	0.00	500.23	-0.08	0.00	26.20	0.0	148.4
	12/22/21		--	11.61	0.00	0.00	501.09	0.86	0.00	26.20	0.0	148.4
	01/11/22		--	11.82	0.00	0.00	500.88	-0.21	0.00	26.20	0.0	148.4
	01/26/22		--	12.56	0.00	0.00	500.14	-0.74	0.00	26.20	0.0	148.4
	02/07/22		--	11.88	0.00	0.00	500.82	0.68	0.00	26.20	0.0	148.4
	03/23/22		12.97	13.00	0.03	0.03	499.72	-1.10	0.00	26.20	0.0	148.4
	06/28/22[4,5]		13.14	13.16	0.02	-0.01	499.56	-0.17	0.10	26.30	2.0	150.4
	08/11/22		--	13.75	0.00†	-0.02	498.95	-0.61	0.11	26.41	0.5	150.9
	08/25/22[4]		13.97	14.00	0.03	0.03	498.72	-0.23	0.30	26.71	2.0	152.9
	09/08/22[4]		13.88	13.90	0.02	-0.01	498.82	0.09	0.50	27.21	3.25	156.2
	10/12/22[4]		13.07	13.11	0.04	0.02	499.62	0.81	0.50	27.71	3.0	159.2
	11/14/22		12.37	12.39	0.02	-0.02	500.33	0.70	0.50	28.21	3.0	162.2
	12/19/22[9]		--	13.17	0.00	-0.02	499.53	-0.80	0.00	28.21	1.0	163.2
	01/18/23		--	12.68	0.00	0.00	500.02	0.49	0.00	28.21	0.0	163.2
	02/28/23		--	11.90	0.00	0.00	500.80	0.78	0.00	28.21	0.0	163.2
	03/27/23		--	11.59	0.00	0.00	501.11	0.31	0.00	28.21	0.0	163.2
	04/06/23		--	11.64	0.00	0.00	501.06	-0.05	0.00	28.21	0.0	163.2
	05/09/23		--	12.69	0.00	0.00	500.01	-1.05	0.00	28.21	0.0	163.2
	06/29/23		--	12.75	0.00	0.00	499.95	-0.06	0.00	28.21	0.0	163.2
	07/27/23		--	14.04	Sheen	0.00	498.66	-1.29	0.00	28.21	0.25	163.4
	08/10/23		14.18	14.25	0.07	0.00	498.50	-0.16	0.10	28.31	0.90	164.3
	09/19/23		14.23	14.25	0.02	0.00	498.47	-0.04	0.05	28.36	0.60	164.9
	10/25/23		--	13.10	0.00	-0.02	499.60	1.13	0.00	28.36	0.10	165.0
	11/21/23		--	13.01	0.00	0.00	499.69	0.09	0.00	28.36	0.20	165.2
	12/13/23		--	11.78	0.00	0.00	500.92	1.23	0.00	28.36	0.00	165.2
	01/30/24		--	11.47	0.00	0.00	501.23	0.31	0.00	28.36	0.00	165.2
	02/27/24		--	12.18	0.00	0.00	500.52	-0.71	0.00	28.36	0.00	165.2
	03/28/24		--	12.07	0.00	0.00	500.63	0.11	0.00	28.36	0.00	165.2
	04/16/24		--	12.47	0.00	0.00	500.23	-0.40	0.00	28.36	0.00	165.2
	05/14/24		--	12.56	0.00	0.00	500.14	-0.09	0.00	28.36	0.00	165.2
	06/12/24[4]		13.29	13.30	0.01	0.01	499.41	-0.73	Sheen	28.36	0.5	165.7
MW-2	03/30/21	511.29	11.42	11.93	0.51	--	499.75	--	0.00	0.00	0.0	0.0
	04/20/21[4,5]		11.88	12.60	0.72	0.21	499.24	-0.51	3.25	3.25	5.0	5.0
	05/20/21[7]		--	12.30	0.00	-0.72	498.99	-0.25	15.53	18.78	135.0	140.0
	06/08/21		--	12.27	0.00	0.00	499.02	0.03	0.00	18.78	0.0	140.0
	06/23/21[4]		12.15	12.16	0.01	0.01	499.14	0.12	0.07	18.85	0.5	140.5
	07/08/21[4]		12.36	12.49	0.13	0.12	498.90	-0.24	0.80	19.65	1.6	142.1
	07/22/21[4]		12.50	12.67	0.17	0.04	498.75	-0.15	1.50	21.15	3.0	145.1
	08/05/21		12.54	12.76	0.22	0.05	498.70	-0.05	1.00	22.15	3.0	148.1
	08/18/21		12.70	12.95	0.25	0.03	498.53	-0.17	0.75	22.90	2.0	150.1
	09/01/21[4,5]		12.64	12.85	0.21	-0.04	498.60	0.07	0.50	23.40	2.0	152.1
	09/22/21		12.09	12.16	0.07	-0.14	499.18	0.58	0.75	24.15	3.0	155.1
	10/06/21		--	11.84	0.00	-0.07	499.45	0.27	0.00	24.15	0.0	155.1
	10/20/21		--	11.80	0.00	0.00	499.49	0.04	0.00	24.15	0.0	155.1
	11/03/21		--	11.51	0.00	0.00	499.78	0.29	0.00	24.15	0.0	155.1
	11/17/21		--	11.17	0.00	0.00	500.12	0.34	0.00	24.15	0.0	155.1
	12/08/21		--	11.12	0.00	0.00	500.17	0.05	0.00	24.15	0.0	155.1
	12/22/21		10.50	10.51	0.01	0.01	500.79	0.62	0.07	24.22	0.0	155.1
	01/11/22		--	11.40	0.00	-0.01	499.89	-0.90	0.00	24.22	0.3	155.4
	01/26/22		--	11.49	0.00	0.00	499.80	-0.09	0.00	24.22	0.0	155.4
	02/07/22		--	11.47	0.00	0.00	499.82	0.02	0.13	24.35	0.3	155.7
	03/23/22		11.75	11.76	0.01	0.01	499.54	-0.28	0.00	24.35	0.0	155.7
	06/28/22		12.12	12.14	0.02	0.01	499.17	-0.37	0.10	24.45	2.0	157.7
	08/11/22[4]		12.40	12.42	0.02	0.00	498.89	-0.28	0.23	24.68	3.2	160.9
	08/25/22[9]		--	12.70	0.00	-0.02	498.59	-0.30	0.20	24.88	0.5	161.4
	09/08/22[4,5]		12.55	12.56	0.01	0.01	498.74	0.15	0.10	24.98	3.0	164.4
	10/12/22[4]		12.77	12.84	0.07	0.06	498.50	-0.23	0.25	25.23	3.0	167.4
	11/14/22		10.93	10.95	0.02	-0.05	500.36	1.85	0.25	25.48	2.5	169.9
	12/19/22		--	11.95	0.00	-0.02	499.34	-1.02	0.13	25.61	0.5	170.4
	01/18/23		--	11.55	0.00	0.00	499.74	0.40	0.00	25.61	0.5	170.9
	02/28/23		11.33	11.34	0.01	0.01	499.96	0.22	0.10	25.71	1.3	172.1
	03/27/23		--	11.02	0.00	-0.01	500.27	0.31	0.10	25.81	1.4	173.5
	04/06/23		--	10.81	0.00	0.00	500.48	0.21	0.00	25.81	0.5	174.0
	05/09/23		--	11.75	0.00	0.00	499.54	-0.94	0.00	25.81	0.5	174.5
	06/29/23		--	12.33	0.00	0.00	498.96	-0.58	0.00	25.81	0.5	175.0
	07/27/23		--	12.71	0.00	0.00	498.58	-0.38	0.00	25.81	0.5	175.5
	08/10/23		12.86	12.91	0.05	0.00	498.42	-0.16	0.05	25.86	0.45	176.0
	09/19/23		12.98	13.04	0.06	0.00	498.30	-0.12	0.05	25.91	1.20	177.2
	10/25/23		--	12.07	0.00	-0.06	499.22	0.92	0.00	25.91	0.00	177.2
	11/21/23		--	11.85	0.00	0.00	499.44	0.22	0.00	25.91	0.00	177.2
	12/13/23		--	10.84	0.00	0.00	500.45	1.01	0.00	25.91	0.00	177.2
	01/30/24		--	10.49	0.00	0.00	500.80	0.35	0.00	25.91	0.00	177.2
	02/27/24		--	11.12	0.00	0.00	500.17	-0.63	0.00	25.91	0.00	177.2
	03/27/24		--	11.23	0.00	0.00	500.06	-0.11	0.00	25.91	0.00	177.2
	04/16/24		--	11.34	0.00	0.00	499.95	-0.11	0.00	25.91	0.00	177.2
	05/14/24		--	11.45	0.00	0.00	499.84	-0.11	0.00	25.91	0.00	177.2
	06/12/24		--	11.98	0.00	0.00	499.31	-0.53	0.00	25.91	0.00	177.2

Table 1
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Summary of LPH Removal
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Well ID	Date Measured	TOC Elevation (ft amsl)	Depth to LPH (ft btoc)	Depth to Water (ft btoc)	LPH Thickness (ft)	Thickness Change (ft)	Groundwater Elevation [1] (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)
MW-5	03/30/21	509.10	--	9.56	0.00	--	499.54	--	0.00	0.00	0.0	0.0
	04/20/21		--	10.13	0.00	0.00	498.97	-0.57	0.00	0.00	0.0	0.0
	05/20/21		--	10.32	0.00	0.00	498.78	-0.19	0.00	0.00	0.0	0.0
	06/08/21		--	10.31	0.00	0.00	498.79	0.01	0.00	0.00	0.0	0.0
	06/23/21		--	10.29	0.00	0.00	498.81	0.02	0.00	0.00	0.0	0.0
	07/08/21		--	10.53	0.00	0.00	498.57	-0.24	0.00	0.00	0.0	0.0
	07/22/21		--	10.69	0.00	0.00	498.41	-0.16	0.00	0.00	0.0	0.0
	08/05/21[4]		10.74	10.76	0.02	0.02	498.36	-0.05	0.10	0.10	0.5	0.5
	08/18/21[4]		10.87	11.10	0.23	0.21	498.18	-0.18	0.75	0.85	2.5	3.0
	09/01/21[4]		10.76	10.77	0.01	-0.22	498.34	0.16	0.10	0.95	1.0	4.0
	09/22/21		--	10.27	0.00	-0.01	498.83	0.49	0.00	0.95	0.9	4.9
	10/06/21		--	9.93	0.00	0.00	499.17	0.34	0.00	0.95	0.0	4.9
	10/20/21		--	9.95	0.00	0.00	499.15	-0.02	0.00	0.95	0.0	4.9
	11/03/21		--	9.56	0.00	0.00	499.54	0.39	0.00	0.95	0.0	4.9
	11/17/21		--	9.37	0.00	0.00	499.73	0.19	0.00	0.95	0.0	4.9
	12/08/21		--	9.25	0.00	0.00	499.85	0.12	0.00	0.95	0.0	4.9
	12/22/21		--	8.45	0.00	0.00	500.65	0.80	0.00	0.95	0.0	4.9
	01/11/22		--	8.81	0.00	0.00	500.29	-0.36	0.00	0.95	0.0	4.9
	01/26/22		--	9.14	0.00	0.00	499.96	-0.33	0.00	0.95	0.0	4.9
	02/07/22		--	8.84	0.00	0.00	500.26	0.30	0.00	0.95	0.0	4.9
	03/23/22		--	9.50	0.00	0.00	499.60	-0.66	0.00	0.95	0.0	4.9
	06/29/22		--	10.02	0.00	0.00	499.08	-0.52	0.00	0.95	2.9	7.8
	08/11/22[4,5]		10.41	10.50	0.09	0.09	498.67	-0.41	0.10	1.05	2.0	9.8
	08/25/22		10.63	10.73	0.10	0.01	498.45	-0.22	0.75	1.80	0.75	10.6
	09/08/22[4]		10.57	10.58	0.01	-0.09	498.53	0.08	0.30	2.10	3.5	14.1
	10/12/22[4]		11.68	11.75	0.07	0.06	497.40	-1.12	1.00	3.10	5.0	19.1
	11/14/22		--	9.34	0.00	-0.07	499.76	2.36	0.50	3.60	0.0	19.1
	12/19/22[4]		--	9.82	0.00	0.00	499.28	-0.48	0.10	3.70	2.0	21.1
	01/18/23		--	9.44	0.00	0.00	499.66	0.38	0.25	3.95	1.0	22.1
	02/28/23[4]		9.22	9.23	0.01	0.01	499.88	0.22	5.90	9.85	0.6	22.7
	03/27/23		--	9.12	0.00	-0.01	499.98	0.10	0.00	9.85	1.0	23.7
	04/06/23		--	8.66	0.00	0.00	500.44	0.46	0.13	9.98	1.5	25.2
	05/09/23		--	9.55	0.00	0.00	499.55	-0.89	0.10	10.08	1.0	26.2
	06/29/23		10.50	10.56	0.06	0.06	498.59	-0.96	0.79	10.87	0.3	26.4
	07/27/23		--	11.89	0.00	-0.06	497.21	-1.38	0.00	10.87	0.0	26.4
	08/10/23		10.90	10.97	0.07	0.07	498.18	0.97	0.05	10.92	0.95	27.4
	09/19/23		--	11.98	Sheen	-0.07	497.12	-1.06	0.00	10.92	0.35	27.7
	10/25/23		9.93	9.94	0.01	0.01	499.17	2.05	0.10	11.02	1.65	29.4
	11/21/23		--	11.13	0.00	-0.01	497.97	-1.20	0.65	11.67	0.10	29.5
	12/13/23		8.78	8.79	0.01	0.01	500.32	2.35	0.05	11.72	1.70	31.2
	01/30/24		--	8.11	0.00	-0.01	500.99	0.67	0.00	11.72	1.75	32.9
	02/28/24		--	8.93	Sheen	0.00	500.17	-0.82	0.00	11.72	2.50	35.4
	03/28/24		--	9.00	Sheen	0.00	500.10	-0.07	0.01	11.73	2.1	37.5
	04/16/24		--	9.31	Sheen	0.00	499.79	-0.31	0.00	11.73	2.40	39.9
	05/15/24		--	9.12	Sheen	0.00	499.98	0.19	0.00	11.73	2.75	42.7
	06/12/24		--	10.04	Sheen	0.00	499.06	-0.92	Sheen	11.73	3.5	46.2
MW-6	03/30/21[6,5]	510.51	10.50	12.15	1.65	--	499.62	--	6.00	6.00	1.0	1.0
	04/20/21[4]		11.31	12.04	0.73	-0.92	499.03	-0.59	4.00	10.00	6.0	7.0
	05/20/21[7]		11.60	12.22	0.62	-0.11	498.76	-0.26	17.24	27.24	135.0	142.0
	06/08/21[4]		11.70	11.72	0.02	-0.60	498.81	0.04	2.08	29.32	4.0	146.0
	06/23/21[4]		11.60	11.62	0.02	0.00	498.91	0.10	1.65	30.97	0.5	146.5
	07/08/21		--	11.91	0.00	-0.02	498.60	-0.31	2.10	33.07	2.1	148.6
	07/22/21[4]		11.92	12.18	0.26	0.26	498.53	-0.07	3.00	36.07	3.5	152.1
	08/05/21[4]		11.88	12.56	0.68	0.42	498.47	-0.06	3.50	39.57	3.5	155.6
	08/18/21[4]		11.95	12.75	0.80	0.12	498.37	-0.10	3.50	43.07	2.0	157.6
	09/1/21[4]		11.98	12.58	0.60	-0.20	498.39	0.02	3.25	46.32	1.0	158.6
	09/22/21[4]		11.47	11.88	0.41	-0.19	498.94	0.55	5.20	51.52	6.0	164.6
	10/06/21		--	11.04	0.00	-0.41	499.47	0.53	0.00	51.52	0.0	164.6
	10/20/21[4]		11.05	11.85	0.00	0.00	498.66	-0.81	3.50	55.02	4.0	168.6
	11/3/21[4]		10.88	10.90	0.02	0.02	499.63	0.97	1.45	56.47	0.7	169.3
	11/17/21		--	10.61	0.00	-0.02	499.90	0.27	0.13	56.60	0.0	169.3
	12/08/21		--	10.53	0.00	0.00	499.98	0.08	0.26	56.86	0.0	169.3
	12/22/21		9.91	9.92	0.01	0.01	500.60	0.62	0.13	56.99	0.5	169.8
	01/11/22[4]		10.08	10.13	0.05	0.04	500.42	-0.18	1.98	58.97	4.0	173.8
	01/26/22[4]		10.88	10.92	0.04	-0.01	499.62	-0.80	0.81	59.78	2.1	175.9
	02/07/22[4]		10.12	10.26	0.14	0.10	500.36	0.74	2.50	62.28	3.5	179.4
	03/23/22[4]		10.74	11.15	0.41	0.27	499.67	-0.68	1.84	64.12	2.1	181.5
	06/28/22[4]		11.17	11.86	0.69	0.28	499.18	-0.50	3.00	67.12	6.0	187.5
	08/11/22[4]		11.68	11.95	0.27	-0.42	498.77	-0.41	2.50	69.62	3.5	191.0
	08/25/22		--	12.12	0.00	-0.27	498.39	-0.38	1.00	70.62	0.0	191.0
	09/08/22[4]		11.85	11.92	0.07	0.07	498.64	0.25	2.50	73.12	3.5	194.5
	10/12/22[4]		11.99	12.12	0.13	0.06	498.49	-0.15	2.50	75.62	6.0	200.5
	11/24/22		10.55	10.71	0.16	0.03	499.92	1.43	1.25	76.87	3.0	203.5
	12/19/22		11.09	11.64	0.55	0.39	499.29	-0.63	3.00	79.87	3.5	207.0
	01/18/23[4]		10.73	10.75	0.02	-0.53	499.78	0.48	2.00	81.87	5.0	212.0
	02/28/23[4]		10.52	10.58	0.06	0.04	499.98	0.20	3.00	84.87	0.3	212.3
	03/27/23		10.27	10.34	0.07	0.01	500.22	0.25	1.20	86.07	6.0	218.3
	04/06/23		9.95	10.00	0.05	-0.02	500.55	0.32	1.00	87.07	7.5	225.8
	05/09/23[4]		11.18	11.29	0.11	0.06	499.30	-1.24	0.50	87.57	5.0	230.8
	06/29/23		11.78	11.89	0.11	0.00	498.70	-0.60	0.79	88.36	0.3	231.1
	07/27/23		--	12.11	Sheen	-0.11	498.40	-0.30	1.00	89.36	0.0	231.1
	08/10/23		12.28	12.45	0.17	0.17	498.19	-0.21	0.50	89.86	0.0	231.1

Table 1
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Well ID	Date Measured	TOC Elevation (ft amsl)	Depth to LPH (ft btoc)	Depth to Water (ft btoc)	LPH Thickness (ft)	Thickness Change (ft)	Groundwater Elevation [1] (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)
MW-6 Cont.	09/19/23	510.51	12.26	12.30	0.04	-0.13	498.24	0.05	1.00	90.86	0.25	231.3
	10/25/23		--	11.38	Sheen	-0.04	499.13	0.89	0.01	90.87	0.50	231.8
	11/21/23		--	9.82	0.00	0.00	500.69	1.56	0.00	90.87	0.00	231.8
	12/13/23		--	10.10	Sheen	0.00	500.41	-0.28	0.00	90.87	1.75	233.6
	01/30/24		9.49	9.50	0.01	0.01	501.02	0.61	0.00	90.87	1.75	235.3
	02/28/24		--	10.21	Sheen	-0.01	500.30	-0.72	0.05	90.92	2.75	238.1
	03/28/24		10.30	10.31	0.01	0.01	500.21	-0.09	0.05	90.97	1.8	239.9
	04/16/24		10.59	10.61	0.02	0.01	499.92	-0.29	0.01	90.98	2.75	242.6
	05/15/24		--	10.46	0.00	-0.02	500.05	0.13	0.05	91.03	2.25	244.9
	06/12/24		11.34	11.38	0.04	0.04	499.16	-0.89	0.1	91.13	1.4	246.3
									EW-1 Cumulative	**20.85**		**893.5**
									EW-2 Cumulative	**101.76**		**1,181.8**
									EW-3 Cumulative	**74.48**		**973.7**
									EW-4 Cumulative	**3.60**		**25.8**
									EW-1R Cumulative	**1.77**		**39.8**
									EW-2R Cumulative	**0.83**		**13.3**
									MW-1 Cumulative	**28.36**		**165.7**
									MW-2 Cumulative	**25.91**		**177.2**
									MW-5 Cumulative	**11.73**		**46.2**
									MW-6 Cumulative	**91.13**		**246.3**
									Cumulative Removed From Site Wells	**360.41**		**3,763.2**

Notes:

(1): groundwater elevation corrected for the presence of free-product using the following calculation: casing elevation minus depth to water plus the product thickness times its density (0.765).
(2): recorded value is gallons of LPH and water removed
(3): overpurging conducted using a vacuum truck
(4): LPH removal by manual bailing
(5): LPH removal using downhole skimmer initiated
(6): LPH removal using peristaltic pump
(7): LPH removal using vacuum truck
(8): well sampled using low-flow purge methods
(9): downhole skimmer removed
--: not detected / not applicable / not surveyed
*: thickness measurements made in reference to total depth of premium UST = 12.20 btofp
**: water volume estimates based on Containment Solutions® 12,000 gallon fiberglass double wall UST volume chart

†: LPH accumulation in skimmer
amsl: above mean sea level
btoc: below top of casing
btofp: below top of fill port
ft: feet
gal: gallons
LPH: liquid phase hydrocarbons
Sheen: LPH sheen observed
TOC: top of casing
TOFP: top of fill port

Table 2
Summary of Groundwater Monitoring Data
United Pacific #5468
Springfield, Oregon

WELL ID	WELL STATUS	SAMPLE DATE	ANALYTICAL PARAMETERS											WATER QUALITY PARAMETERS							MONITORING PARAMETERS				WELL ELEVATION			WELL	
			TPH-Ox (µg/L)	TPH-Dx (µg/L)	TPH-Gx (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Naph (µg/L)	EDB* (µg/L)	EDC (µg/L)	Lead (µg/L)	DO (mg/L)[6]	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Fe^{2+} (mg/L)	DTP (ft btoc)	DTW (ft btoc)	DTB (ft btoc)	PT (ft)	CASING (ft amsl)	GW (ft amsl)	GW Δ (ft amsl)	DIA (inches)	SCREEN (ft bgs)
			NWTPH-Dx		NWTPH-Gx	EPA Method 8260D								EPA 7010															
MW-1[1]	Active	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.29	13.30	24.31	0.01	512.70	499.41	-1.22	4	5-25
MW-2	Active	06/12/24	--	--	**18,000**	**730**	1,000	**800**	**1,100**	<5.0	**82**	<0.010	<1.0	<5.0	0.07	-318.4	522.0	6.94	18.5	9.78	6.0	--	11.98	24.93	0.00	511.29	499.31	-0.75	4	5-25
MW-3	Active	06/12/24	--	--	<100	**25**	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	<5.0	0.16	-208.4	388.4	6.95	17.8	6.98	0.5	--	11.67	26.78	0.00	511.12	499.45	-0.75	4	5-25
MW-4	Active	06/12/24	--	--	170	<1.0	<2.0	<1.0	20	<5.0	**15**	<0.010	<1.0	<5.0	0.17	-119.2	489.9	7.02	17.9	9.67	0.0	--	10.38	23.73	0.00	509.78	499.40	-0.58	4	5-25
MW-5[1]	Active	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	10.04	22.54	0.00	509.10	499.06	-1.04	4	3.5-23.5
MW-6[1]	Active	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.34	11.38	24.14	0.04	510.51	499.16	-1.05	4	5-25
MW-7	Active	06/11/24	--	--	**5,000**	**170**	12	**200**	**920**	<5.0	**72**	<0.010	<1.0	<5.0	0.11	-272.9	784.0	6.71	17.7	10.90	6.0	--	12.47	24.94	0.00	511.65	499.18	-0.85	4	5-25
MW-8	Active	06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	<5.0	5.49	76.3	288.0	6.35	17.7	7.95	0.0	--	11.63	17.97	0.00	509.75	498.12	-1.05	4	8-18
MW-9	Active	06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	<5.0	1.76	540.0	267.7	6.02	16.7	16.30	0.0	--	10.61	17.24	0.00	509.89	499.28	-0.73	4	7-17
MW-10	Active	06/11/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	<5.0	4.96	20.3	390.1	6.37	17.3	4.50	0.0	--	12.21	17.78	0.00	511.13	498.92	-0.97	4	7-17
MW-11	Active	06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	<5.0	6.68	89.0	367.4	6.19	17.9	7.08	0.0	--	11.80	19.91	0.00	511.69	499.89	-0.68	2	10-20
EW-1R[1]	Active	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.51	11.54	23.04	0.03	510.86	499.34	-1.08	4	13-23
EW-2R	Active	06/12/24	--	--	**89,000**	**2,300**	**19,000**	**2,000**	**20,000**	<5.0	**800**	<0.010	<1.0	<5.0	0.13	-225.4	673.0	6.70	17.0	13.80	10.0	--	11.66	22.80	0.00	510.91	499.25	-1.01	4	13-23
EW-4	Active	06/12/24	--	--	**68,000**	**3,400**	**16,000**	**1,900**	**9,300**	<5.0	**750**	<0.010	<1.0	<5.0	0.12	-221.9	517.0	6.95	17.2	181.20	10.0	--	12.20	22.73	0.00	510.67	498.47	-1.00	4	13-23
NW Obs.	Observation	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.17	16.11	0.00	--	--	--	4	5-15
NE Obs.	Observation	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.29	14.90	0.00	--	--	--	4	5-15
SE Obs.	Observation	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.91	14.86	0.00	--	--	--	4	5-15
SW Obs.	Observation	06/12/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.17	13.45	0.00	--	--	--	4	5-15
RBC: Ingestion/Inhalation from Tapwater[2]			430	430	450	2.1	6,300	6.4	830	68	0.72	0.034	0.78	15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RBC: Volatilization to Outdoor Air[3]			>S	>S	>S	14,000	>S	43,000	>S	1,500,000	16,000	790	9,000	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RBC: Volatilization to Indoor Air[4]			1,700	1,700	520	12/650	150,000/160,000	31/420,000	3,300/200,000	3,200/1,600,000	50/83,000	1.5/--	18/--	--	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RBC: Groundwater in Excavations[5]			>S	>S	14,000	1,800	220,000	4,500	23,000	63,000	500	27	630	<S	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Notes:

Results in **BOLD** indicate detections that exceed the ODEQ Risk-Based Concetrations (RBCs) for groundwater
(1): sample not collected due to liquid-phase hydrocarbons (LPH; free-product) present in well; groundwater elevation corrected for the presence of LPH using the following calculation: TOC elevation minus DTW plus the product thickness times its density (0.765)
(2): RBC for Groundwater - Injestion and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs - revised May 2018 amended June 2023)
(3): RBC for Groundwater - Volatilization to Outdoor Air, occupational receptor scenario (see ODEQ Table of RBCs - revised May 2018 amended June 2023)
(4): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see OQED Vapor Intrusion Risk-Based Concentration Table 1 - June 2023)
(5): RBC for Groundwater in Excavation, Contact to Construction and Excavation Workers
(6): DO readings were anomalous and field repairs failed to correct issue
--: not analyzed / not measured / unknown
<: less than the laboratory method detection limit
>S: RBC exceeds the solubility limit
°C: degrees celsius
*: analyzed using SIM (selected ion monitoring)
µg/L: micrograms per Liter
µs/cm: microsiemens per centimeter

Active: groundwater well currently used for monitoring
amsl: above mean sea level
bgs: below ground surface
BTEX: benzene, toluene, ethylbenzene, and total xylenes
btoc: below top of casing
DIA: casing diameter
DO: dissolved oxygen
DTB: depth to bottom
DTP: depth to product
DTW: depth to water
DTW Δ : Change in depth to water since last monitoring event
EDB: 1,2-dibromoethane
EDC: 1,2-dichloroethane
EPA: Environmental Protection Agency
Fe^{2+}: ferrous iron
ft: feet
GW: groundwater
mg/L: milligrams per Liter

mV: millivolts
na: not applicable
Naph: naphthalene
ND: not detected
NM: not measured
NTU: nephelometric turbidity units
nv: chemical is considered "non volatile" for purposes of the exposure calculations in this document
Observation: Observation well located within tank cavity used for periodic gauging
ODEQ: Oregon Dpeatrment of Environmental Quality
ORP: oxidation reduction potential
pH: potential hydrogen
PT: free-product thickness
RBC: Risked Based Concentration established by the Oregon Department of Environmental Quality (ODEQ)
Sheen: sheen observed in well
Temp: temperature
TPH-Dx: total diesel-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Dx
TPH-Gx: total gasoline-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Gx
TPH-Ox: total oil-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Ox

Table 3
Summary of Historical Groundwater Monitoring Data
United Pacific #5468
Springfield, Oregon
Page 1 of 3

WELL ID	WELL STATUS	SAMPLE DATE	ANALYTICAL PARAMETERS												MONITORING PARAMETERS			WELL ELEVATION		
			TPH-Ox (µg/L)	TPH-Dx (µg/L)	TPH-Gx (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Naph (µg/L)	EDB (µg/L)	EDC (µg/L)	Other VOCs	DTP [1] (ft btoc)	DTW (ft btoc)	PT (ft)	CASING [2] (ft amsl)	GW [3] (ft amsl)	GW Δ (ft amsl)
			NWTPH-Dx		NWTPH-Gx	EPA Method 8260D														
MW-1	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	12.78	12.79	0.01	512.70	499.92	--
		06/23/21	--	--	--	--	--	--	--	--	--	--	--	--	13.55	13.83	0.28		499.08	-0.83
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	13.56	13.57	0.01		499.14	0.05
		12/22/21	--	--	**3,900**	**260 E**	67	<1.0	230	<5.0	<5.0	<0.01	<1.0	(9)	ND	11.61	0.00		501.09	1.95
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	12.97	13.00	0.03		499.72	-1.37
		06/28/22	--	--	--	--	--	--	--	--	--	--	--	--	13.14	13.16	0.02		499.56	-0.17
		10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	13.07	13.11	0.04		499.62	0.06
		12/20/22	--	--	**2,100**	1.1	2.6	<1.0	250	<5.0	<5.0	<0.01	<1.0	(9)	ND	13.17	0.00		499.53	-0.09
		04/06/23	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.64	0.00		501.06	1.53
		06/29/23	--	--	**3,200**	**62**	510	**65**	440	<5.0	**19**	0.014	<1.0	(9)	ND	12.75	0.00		499.95	-1.11
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	14.23	14.25	0.02		498.47	-1.48
		12/13/23	--	--	**1,100**	<1.0	<2.0	1.4	11	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.78	0.00		500.92	2.45
		03/28/24	--	--	240	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.07	0.00		500.63	-0.29
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--	--	13.29	13.30	0.01		499.41	-1.22
MW-2	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	11.42	11.93	0.51	511.29	499.75	--
		06/23/21	--	--	--	--	--	--	--	--	--	--	--	--	12.15	12.16	0.01		499.14	-0.61
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	12.09	12.16	0.07		499.18	0.05
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	10.50	10.51	0.01		500.79	1.60
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		499.54	-1.25
		06/28/22	--	--	--	--	--	--	--	--	--	--	--	--	12.12	12.14	0.02		499.17	-0.37
		10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	12.77	12.84	0.07		498.50	-0.67
		12/20/22	--	--	**26,000**	**1,000**	2,600	**510**	**2,300**	<5.0	**89**	<0.010	<1.0	(9)	ND	11.95	0.00		499.34	0.84
		04/06/23	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.81	0.00		500.48	1.14
		06/29/23	--	--	**31,000**	**780**	5,400	**760**	**4,400**	<5.0	**70**	0.016	<1.0	(9)	ND	12.33	0.00		498.96	-1.52
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	12.98	13.04	0.06		498.30	-0.66
		12/13/23	--	--	**25,000**	**260**	2,200	**620**	**4,700**	<5.0	**120**	<0.010	<1.0	(9)	ND	10.84	0.00		500.45	2.15
		03/27/24	--	--	**4,000**	**70**	340	**200**	**420**	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.23	0.00		500.06	-0.39
		06/12/24	--	--	**18,000**	**730**	1,000	**800**	**1,100**	<5.0	**82**	<0.010	<1.0	(9)	ND	11.98	0.00		499.31	-0.75
DUP-1		06/12/24	--	--	**8,700**	**530**	710	**570**	**750**	<5.0	**77**	<0.010	<1.0	(9)	--	--	--		--	--
MW-3	Active	03/30/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.32	0.00	511.12	499.80	--
		06/23/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.89	0.00		499.23	-0.57
DUP-1		06/23/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--		--	--
		09/23/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.86	0.00		499.26	0.03
		12/22/21	--	--	110	20	<1.0	<1.0	2.3	<5.0	<5.0	<0.01	<1.0	(8)	ND	10.33	0.00		500.79	1.53
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	260	**36**	32	1.9	26	<5.0	<5.0	<0.01	<1.0	(9)	ND	11.31	0.00		499.81	-0.98
		06/28/22	--	--	220	<1.0	<1.0	<1.0	32	<5.0	<5.0	<0.01	<1.0	(9)	ND	11.77	0.00		499.35	-0.46
		10/12/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	12.33	0.00		498.79	-0.56
DUP-1		10/12/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--		--	--
		12/20/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.55	0.00		499.57	0.78
		04/06/23	--	--	<100	**56**	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(9)	ND	10.50	0.00		500.62	1.05
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.01	0.00		499.11	-1.51
		09/19/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.48	0.00		498.64	-0.47
		12/13/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.66	0.00		500.46	1.82
		03/27/24	--	--	**950**	**200**	<2.0	**50**	<2.0	<5.0	**5.0**	<0.010	<1.0	(8)	ND	10.92	0.00		500.20	-0.26
		06/12/24	--	--	<100	**25**	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.67	0.00		499.45	-0.75
MW-4	Active	03/30/21	--	--	**180,000**	**3,000**	**25,000 E**	**3,100**	**18,000**	<5.0	**180**	<0.01	<1.0	(9)	ND	10.17	0.00	509.78	499.61	--
DUP-1		03/30/21	--	--	**190,000**	**3,000**	**25,000 E**	**3,000**	**17,000**	<5.0	**250**	<0.01	<1.0	(9)	--	--	--		--	--
		06/23/21	--	--	**52,000**	**1,600**	**17,000**	**2,200**	**21,000**	<5.0	**500**	<0.01	<1.0	(9)	ND	10.83	0.00		498.95	-0.66
		09/23/21	--	--	**40,000**	**1,300**	**6,600**	**1,400**	**8,600**	<5.0	**530**	<0.01	<1.0	(9)	ND	10.78	0.00		499.00	0.05
DUP-1		09/23/21	--	--	**39,000**	**1,200**	5,500	**1,400**	**6,900**	<5.0	**620**	<0.01	<1.0	(9)	--	--	--		--	--
		12/22/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	9.11	0.00		500.67	1.67
		01/11/22[10]	--	--	**2,400**	**250**	53	<1.0	160	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	**62,000**	**1,100**	5,900	**1,600**	**10,000**	<250	**250**	<0.5	<50	(9)	ND	10.11	0.00		499.67	-1.00
		06/29/22	--	--	**37,000**	**560**	1,400	<1.0	**10,000**	<5.0	**130**	<0.01	<1.0	(9)	ND	10.53	0.00		499.25	-0.42
		10/12/22	--	--	**24,000**	**600**	380	**510**	**5,500**	<5.0	**78**	<0.01	<1.0	(9)	ND	11.26	0.00		498.52	-0.73
		12/20/22	--	--	**33,000**	**330**	2,000	**480**	**3,800**	50	**380**	<0.1	<10	(9)	ND	10.37	0.00		499.41	0.89
		04/06/23	--	--	**4,400**	**82**	<10	<10	**1,500**	50	<50	<0.10	<10	(9)	ND	10.29	0.00		499.49	0.08
		06/29/23	--	--	**4,000**	**67**	190	33	**890**	<5.0	**48**	<0.010	<1.0	(9)	ND	10.93	0.00		498.85	-0.64
		09/19/23	--	--	**19,000**	**300**	140	3.9	**5,100**	<5.0	**130**	<0.010	<1.0	(9)	ND	11.29	0.00		498.49	-0.36
		12/13/23	--	--	**7,800**	**56**	420	**290**	**1,500**	<5.0	**92**	<0.010	<1.0	(9)	ND	9.29	0.00		500.49	2.00
DUP-1		12/13/23	--	--	**6,800**	**53**	500	**170**	**1,400**	<5.0	**19**	<0.010	<1.0	(9)	--	--	--		--	--
		03/27/24	--	--	**1,600**	**140**	4.7	<1.0	220	<5.0	**26**	<0.010	<1.0	(9)	ND	9.80	0.00		499.98	-0.51
		06/12/24	--	--	170	<1.0	<2.0	<1.0	20	<5.0	**15**	<0.010	<1.0	(8)	ND	10.38	0.00		499.40	-0.58
MW-5	Active	03/30/21	--	--	**250,000 E**	**3,900**	**34,000 E**	**3,500**	**23,000**	<5.0	**230**	<0.01	<1.0	(9)	ND	9.56	0.00	509.10	499.54	--
		06/23/21	--	--	**58,000**	**4,400**	**24,000 E**	**2,500**	**17,000**	<5.0	**350**	<0.01	<1.0	(9)	ND	10.29	0.00		498.81	-0.73
		09/23/21	--	--	**65,000**	**3,900**	**18,000 E**	**1,600**	**11,000**	<5.0	**450**	<0.01	<1.0	(9)	ND	10.27	0.00		498.83	0.02
		12/22/21	--	--	**230,000**	**4,900**	**29,000 E**	**210**	**18,000**	<5.0	**310**	<0.01	<1.0	(9)	ND	8.45	0.00		500.65	1.82
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	**110,000**	**4,000**	**14,000 E**	**1,800**	**15,000**	<250	**360**	<0.5	<50	(9)	ND	9.50	0.00		499.60	-1.05
		06/29/22	--	--	**260,000 E**	**5,800**	**45,000 E**	**2,900**	**34,000 E**	<5.0	**320**	<0.01	<1.0	(9)	ND	10.02	0.00		499.08	-0.52
		10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	11.68	11.75	0.07		497.40	-1.68
		12/20/22	--	--	**80,000**	**3,700**	**10,000**	**1,800**	**11,000**	50	**270**	<0.1	<10	(9)	ND	9.90	0.00		499.20	1.80
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	8.66	0.00		500.44	1.24
		06/29/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	10.50	10.56	0.06		498.59	-1.85
		09/19/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	11.98	0.00		497.12	-1.47
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	8.78	8.79	0.01		500.32	3.20
		03/28/24	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	9.00	0.00		500.10	-0.22
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	10.04	0.00		499.06	-1.04
MW-6	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	10.50	12.15	1.65	510.51	499.62	--
		06/23/21	--	--	--	--	--	--	--	--	--	--	--	--	11.60	11.62	0.02		498.91	-0.72
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	11.47	11.88	0.41		498.94	0.04
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	9.91	9.92	0.01		500.60	1.65
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
		06/28/22	--	--	--	--	--	--	--	--	--	--	--	--	11.17	11.86	0.69		499.18	-1.42
		10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	11.99	12.12	0.13		498.49	-0.69
		12/20/22	--	--	--	--	--	--	--	--	--	--	--	--	11.09	11.64	0.55		499.29	0.80
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	9.95	10.00	0.05		500.55	1.26
		06/29/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	11.78	11.89	0.11		498.70	-1.84
		09/19/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	12.26	12.30	0.04		498.24	-0.46
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	10.10	0.00		500.41	2.17
		03/28/24	--	--	--	--	--	--	--	--	--	--	--	--	10.30	10.31	0.01		500.21	-0.20
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--	--	11.34	11.38	0.04		499.16	-1.05
MW-7	Active	03/30/21	--	--	260	**33**	1.7	<1.0	3.6	<5.0	<5.0	<0.01	<1.0	(8)	ND	12.12	0.00	511.65	499.53	--
		06/23/21	--	--	170	**11**	39	6.3	46	<5.0	<5.0	<0.01	<1.0	(9)	ND	12.85	0.00		498.80	-0.73
DUP-1		06/23/21	--	--	<100	**9.0**	17	2.0	15	<5.0	<5.0	<0.01	<1.0	(9)	--	--	--		--	--
		09/23/21	--	--	**850**	**170**	84	**7.5**	67	<5.0	<5.0	<0.01	<1.0	(9)	ND	12.82	0.00		498.83	0.03
		12/22/21	--	--	**15,000**	**980**	2,300 E	**140**	850	<5.0	**23**	<0.01	<1.0	(9)	ND	10.89	0.00		500.76	1.93
MW-7 Dup		12/22/21	--	--	**21,000 E**	**790 E**	1,400 E	**159**	890 E	<5.0	**24**	<0.01	<1.0	(9)	--	--	--		--	--
		01/11/22[10]	--	--	**4,600**	**490**	730	**58**	300	--	--	--	--	--	--	--	--		--	--
		03/23/22	--	--	**14,000**	**1,000**	2,900	**200**	**1,300**	<5.0	**28**	<0.01	<1.0	(9)	ND	12.00	0.00		499.65	-1.11
DUP-2		03/23/22	--	--	**22,000**	**1,200**	3,300	**230**	**1,400**	<250	<250	<0.5	<50	(9)	--	--	--		--	--

Table 3
Summary of Historical Groundwater Monitoring Data
United Pacific #5468
Springfield, Oregon
Page 2 of 3

WELL ID	WELL STATUS	SAMPLE DATE	ANALYTICAL PARAMETERS												MONITORING PARAMETERS			WELL ELEVATION		
			TPH-Ox (µg/L)	TPH-Dx (µg/L)	TPH-Gx (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Naph (µg/L)	EDB (µg/L)	EDC (µg/L)	Other VOCs	DTP [1] (ft btoc)	DTW (ft btoc)	PT (ft)	CASING [2] (ft amsl)	GW [3] (ft amsl)	GW Δ (ft amsl)
			NWTPH-Dx		NWTPH-Gx	EPA Method 8260D														
MW-7	Active	06/28/22	--	--	17,000	1,100	3,900	320	1,100	<5.0	31	<0.01	<1.0	(9)	ND	12.56	0.00	511.65	499.09	-0.56
con't		10/12/22	--	--	24,000	1,300	3,500	240	1,600	<5.0	9.7	<0.01	<1.0	(9)	ND	13.18	0.00		498.47	-0.62
		12/20/22	--	--	5,000	710	890	120	490	<5.0	34	<0.01	<1.0	(9)	ND	12.33	0.00		499.32	0.85
		04/06/23	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.07	0.00		500.58	1.26
		06/29/23	--	--	9,200	670	530	320	1,600	<5.0	33	<0.010	<1.0	(9)	ND	12.98	0.00		498.67	-1.91
DUP-1		06/29/23	--	--	8,000	710	570	350	1,800	<5.0	23	<0.010	<1.0	(9)	--	--	--		--	--
		09/19/23	--	--	7,100	510	210	180	1,200	<5.0	37	<0.010	<1.0	(9)	ND	13.34	0.00		498.31	-0.36
DUP-1		09/19/23	--	--	3,300	250	76	57	580	<5.0	21	<0.010	<1.0	(9)	--	--	--		--	--
		12/12/23	--	--	3,900	170	43	130	630	<5.0	110	<0.010	<1.0	(9)	ND	11.04	0.00		500.61	2.30
		03/27/24	--	--	6,100	230	21	260	1,200	<5.0	19	<0.010	<1.0	(9)	ND	11.62	0.00		500.03	-0.58
		06/11/24	--	--	5,000	170	12	200	920	<5.0	72	<0.010	<1.0	(9)	ND	12.47	0.00		499.18	-0.85
MW-8	Active	12/19/22	--	--	<100	<1.0	2.7	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.55	0.00	509.75	498.20	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	9.96	0.00		499.79	1.59
DUP-1		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--		--	--
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.94	0.00		497.81	-1.98
		09/18/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.51	0.00		497.24	-0.57
		12/12/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.08	0.00		499.67	2.43
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.58	0.00		499.17	-0.50
		06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.63	0.00		499.12	-1.05
MW-9	Active	12/19/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	10.52	0.00	509.89	499.37	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	9.30	0.00		500.59	1.22
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.03	0.00		498.86	-1.73
		09/18/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.54	0.00		498.35	-0.51
		12/12/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	8.72	0.00		501.17	2.82
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	9.88	0.00		500.01	-1.16
DUP-1		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--		--	--
		06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.61	0.00		499.28	-0.73
MW-10	Active	12/20/22	--	--	120	1.9	11	2.6	13	<5.0	<5.0	<0.01	<1.0	(9)	ND	9.59	0.00	511.13	501.54	--
DUP-1		12/20/22	--	--	100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(9)	--	--	--		--	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.50	0.00		500.63	-0.91
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.62	0.00		498.51	-2.12
		09/18/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	13.08	0.00		498.05	-0.46
		12/12/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.71	0.00		500.42	2.37
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.24	0.00		499.89	-0.53
		06/11/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.21	0.00		498.92	-0.97
MW-11	Active	12/20/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.70	0.00	511.69	499.99	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.59	0.00		501.10	1.11
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.37	0.00		499.32	-1.78
		09/19/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.69	0.00		499.00	-0.32
		12/13/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	10.80	0.00		500.89	1.89
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.12	0.00		500.57	-0.32
		06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.80	0.00		499.89	-0.68
EW-1	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	11.05	11.14	0.09	510.97	499.90	--
		06/23/21	--	--	156,000	11,000	66,000 E	5,600	36,000	<5.0	650	<0.01	<1.0	(9)	ND	11.74	0.00		499.23	-0.67
		09/23/21	--	--	21,000	490	4,200	550	3,200	<5.0	110	<0.01	<1.0	(9)	ND	11.72	0.00		499.25	0.02
		12/22/21	--	--	40,000	560	2,700 E	580	<20	<50	87	<0.10	<10	(9)	ND	9.90	0.00		501.07	1.82
DUP-1		12/22/21	--	--	40,000	600	2,900 E	620	<20	<50	22	<0.10	<10	(9)	--	--	--		--	--
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
	Abandoned[11]	03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
EW-1R[12]	Active	10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	12.17	12.19	0.02	510.86	498.69	--
		12/20/22	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.32	0.00		499.54	0.85
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	10.10	10.11	0.01		500.75	1.21
		06/29/23	--	--	25,000	1,600	3,500	900	4,800	<5.0	17	<0.010	<1.0	(9)	ND	11.82	0.00		499.04	-1.71
		9/18/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	12.30	12.45	0.15		498.52	-0.52
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	10.18	0.00		500.68	2.16
		03/28/24[1]	--	--	--	--	--	--	--	--	--	--	--	--	10.43	10.44	0.01		500.43	-0.25
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--	--	11.51	11.54	0.03		499.34	-1.08
EW-2	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	11.20	11.28	0.08	510.90	499.68	--
		06/23/21	--	--	--	--	--	--	--	--	--	--	--	--	11.88	12.07	0.19		498.98	-0.71
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	11.84	11.87	0.03		499.05	0.08
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	10.20	10.22	0.02		500.70	1.64
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
	Abandoned[11]	03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
EW-2R[12]	Active	10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	12.32	12.34	0.02	510.91	498.59	--
		12/20/22	--	--	--	--	--	--	--	--	--	--	--	--	11.53	11.54	0.01		499.38	0.79
		04/06/23	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.32	0.00		500.59	1.21
		06/29/23	--	--	5,200	340	1,200	180	710	<5.0	27	<0.010	<1.0	(9)	ND	12.17	0.00		498.74	-1.85
		09/19/23	--	--	840	6.5	3.4	<1.0	140	<5.0	6.2	<0.010	<1.0	(8)	ND	12.46	0.00		498.45	-0.29
		12/13/23	--	--	200,000	2,100	35,000	3,900	17,000	<5.0	610	<0.010	<1.0	(9)	ND	10.44	0.00		500.47	2.02
		03/28/24	--	--	69,000	920	9,000	850	13,000	<5.0	51	<0.010	<1.0	(9)	ND	10.65	0.00		500.26	-0.21
		06/12/24	--	--	89,000	2,300	19,000	2,000	20,000	<5.0	800	<0.010	<1.0	(9)	ND	11.66	0.00		499.25	-1.01
EW-3	Active	03/30/21	--	--	--	--	--	--	--	--	--	--	--	--	11.68	11.90	0.22	511.63	499.90	--
		06/23/21	--	--	--	--	--	--	--	--	--	--	--	--	12.40	12.41	0.01		499.23	-0.67
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	12.36	12.45	0.09		499.25	0.02
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	10.76	10.77	0.01		500.87	1.62
		01/11/22[10]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
	Abandoned[11]	03/23/22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--
EW-4[12]	Active	10/12/22	--	--	--	--	--	--	--	--	--	--	--	--	12.89	12.90	0.01	510.67	497.78	--
		12/20/22	--	--	--	--	--	--	--	--	--	--	--	--	12.08	12.30	0.22		498.54	0.76
		4/06/23[1]	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	11.00	0.00		499.67	1.13
		06/29/23	--	--	40,000	2,700	8,900	910	5,900	<5.0	89	<0.010	<1.0	(9)	ND	12.72	0.00		497.95	-1.72
		09/19/23	--	--	17,000	1,200	2,000	110	2,000	<5.0	48	0.023	<1.0	(9)	ND	13.07	0.00		497.60	-0.35
		12/13/23	--	--	98,000	7,000	17,000	2,700	7,100	<5.0	590	<0.010	<1.0	(9)	ND	10.99	0.00		499.68	2.08
		03/28/24	--	--	64,000	1,800	10,000	1,300	7,900	<5.0	130	<0.010	<1.0	(9)	ND	11.20	0.00		499.47	-0.21
		06/12/24	--	--	68,000	3,400	16,000	1,900	9,300	<5.0	750	<0.010	<1.0	(9)	ND	12.20	0.00		498.47	-1.00

Table 3
Summary of Historical Groundwater Monitoring Data
United Pacific #5468
Springfield, Oregon
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WELL ID	WELL STATUS	SAMPLE DATE	ANALYTICAL PARAMETERS											MONITORING PARAMETERS			WELL ELEVATION		
			TPH-Ox (µg/L)	TPH-Dx (µg/L)	TPH-Gx (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Naph (µg/L)	EDB (µg/L)	EDC (µg/L)	Other VOCs	DTP [1] (ft btoc)	DTW (ft btoc)	PT (ft)	CASING [2] (ft amsl)	GW [3] (ft amsl)	GW Δ (ft amsl)
			NWTPH-Dx		NWTPH-Gx	EPA Method 8260D													
QA/QC Samples																			
EB-1		03/30/21	--	--	<100	<1.0	1.1	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		06/23/21	--	--	<100	<1.0	10	1.3	8.1	<5.0	<5.0	<0.01	<1.0	(9)	--	--	--	--	--	--
		09/23/21	--	--	100	<1.0	2.2	<1.0	2.3	<5.0	<5.0	<0.01	<1.0	(9)	--	--	--	--	--	--
		12/22/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(9)	--	--	--	--	--	--
		03/23/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		06/28/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		10/12/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/19/22	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		09/19/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/12/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		06/11/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
EB-2		06/29/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/20/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
EB-2 Dup		12/20/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		06/29/23	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		09/19/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/13/23	--	--	770	3.8	140	20	160	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		06/12/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
Trip Blank		06/23/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/22/21	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		03/23/22	--	--	<100	<1.1	<1.0	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		10/12/22	--	--	<100	<1.0	<1.0	1.2	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		12/20/22	--	--	<100	<1.0	<1.0	1.2	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	--	--	--	--	--	--
		04/06/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		06/29/23	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12/13/23	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		03/27/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
		06/11/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--
RBC: Injestion/Inhalation from Tapwater[4]			430	430	450	2.1	6,300	6.4	830	68	0.72	0.034	0.78	--	na	na	na	na	na	na
RBC: Volatilization to Outdoor Air[5]			>S	>S	>S	14,000	>S	43,000	>S	1,500,000	16,000	790	9,000	--	na	na	na	na	na	na
RBC: Volatilization to Indoor Air[6]			1,700	1,700	520	12/650	150,000/160,000	31/420,000	3,300/200,000	3,200/1,600,000	50/83,000	1.5/--	55/--	--	na	na	na	na	na	na
RBC: Groundwater in Excavations[7]			>S	>S	14,000	1,800	220,000	4,500	23,000	63,000	500	27	630	--	na	na	na	na	na	na

Notes:

Results in **BOLD** indicate detections that exceed ODEQ Risk-Based Concentrations (RBCs) for groundwater
(1): wells containing free-product were not sampled
(2): top of casing elevations surveyed on 12/09/20 and 03/22/21.
(3): groundwater elevation corrected for the presence of free-product using the following calculation:
casing elevation minus depth to water plus the product thickness times its density (0.765). An average density of 0.765 (based on published literature) is used in the calculation.
(4): RBC for Groundwater - Injestion and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs - revised May 2018 amended June 2023)
(5): RBC for Groundwater - Volatilization to Outdoor Air, occupational receptor scenario (see ODEQ Table of RBCs - revised May 2018 amended June 2023)
(6): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see OQED Vapor Intrusion Risk-Based Concentration Table 1 - June 2023)
(7): RBC for Groundwater in Excavation, Contact to Construction and Excavation Workers
(8): No other VOCs detected in sample
(9): Other VOCs detected in sample; refer to Table 4 for other VOCs detected
(10): Confirmation samples collected from Wells MW-4 and MW-7 on 1/11/2022
(11): Wells EW-1, EW-2, and EW-3 abandoned on March 7 and 8, 2022
(12): Wells EW-1R, EW-2R, and EW-4 installed on September 20 and 21, 2022
--: not analyzed / not measured / unknown
<: less than the laboratory method reporting limit
>S: RBC exceeds the solubility limit
µg/L: micrograms per Liter

Active: groundwater well currently used for monitoring
amsl: above mean sea level
BTEX: benzene, toluene, ethylbenzene, and total xylenes
btoc: below top of casing
DTP: depth to product
DTW: depth to water
DTW Δ : Change in depth to water since last monitoring event
DUP: duplicate sample
E: reported result is an estimate because it exceeds the calibration range
EB-1: equipment blank
EDB: 1,2-dibromoethane
EDC: 1,2-dichlorethane
ft: feet
GW: groundwater
MTBE: Methyl tert-butyl ether
na: not applicable
ND: not detected
PT: free-product thickness
RBC: Risked Based Concentration established bythe Oregon Department of Environmental Quality (ODEQ)
TPH-Dx: total diesel-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Dx
TPH-Gx: total gasoline-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Gx
TPH-Ox: total oil-range petroleum hydrocarbons, analyzed by Northwest Method NWTPH-Ox

TABLE 4
Additional VOCs detected in Groundwater
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Boring ID	Well Status	Date Sampled	CM (µg/L)	IPB (µg/L)	NPB (µg/L)	1,3,5-TMB (µg/L)	1,2,4-TMB (µg/L)	SBB (µg/L)	IPT (µg/L)	TBB (µg/L)	NBB (µg/L)	2-methyl (µg/L)	1-methyl (µg/L)
			Method 8260D										
MW-1	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		09/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		12/22/21	33	<4.0	<1.0	41	36	<1.0	2.3	<1.0	<1.0	--	--
		03/23/22[1]	--	--	--	--	--	--	--	--	--	--	--
		06/28/22[1]	--	--	--	--	--	--	--	--	--	--	--
		10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22	2.4	<4.0	<1.0	140	83	<1.0	9.7	<1.0	3.6	--	--
		04/06/23	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	<4.0	8.8	24	94	<1.0	1.3	<1.0	<1.0	--	--
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--
		12/13/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/28/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--
MW-2	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		09/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		12/22/21[1]	--	--	--	--	--	--	--	--	--	--	--
		03/23/22[1]	--	--	--	--	--	--	--	--	--	--	--
		6/28/22[1]	--	--	--	--	--	--	--	--	--	--	--
		10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22	24	31	99	150	**560**	<1.0	<1.0	<1.0	6.8	--	--
		04/06/23	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	36	130	230	**880**	7.0	15	<1.0	7.0	--	--
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--
		12/13/23	--	--	--	--	--	--	--	--	--	83	49
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	35	24
DUP-1		06/12/24	--	--	--	--	--	--	--	--	--	31	19
MW-3	Active	03/30/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/23/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/23/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/22/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		03/23/22	<2.0	<4.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/28/22	<2.0	<4.0	<1.0	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		10/12/22	<2.0	<4.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	--	--
DUP-1		10/12/22	<2.0	<4.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/20/22	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	2.2	<4.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/13/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
MW-4	Active	03/30/21	<2.0	74	190	**430**	**1,700**	<1.0	11	280	6.8	--	--
DUP-1		03/30/21	<2.0	73	220	**460**	**1,800**	<1.0	12	270	6.6	--	--
		06/23/21	24	52	94	**750**	**2,800**	<1.0	15	1.0	6.2	--	--
		09/22/21	18	59	120	250	**1,200**	<1.0	12	1.0	4.6	--	--
DUP-1		09/23/21	15	52	110	**340**	**1,200**	<1.0	11	<1.0	4.1	--	--
		12/22/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		03/23/22	<100	<200	140	**500**	**1,700**	<50	50	250	50	--	--
		06/29/22	18	<4.0	<1.0	**310**	**1,300**	<1.0	<1.0	<1.0	<1.0	--	--
		10/12/22	14	12	10	**430**	**1,300**	2.4	15	86	11	--	--
		12/20/22	20	40	11	**320**	**990**	<10	11	<10	41	--	--
		04/06/23	<20	<40	<10	46	14	<10	<10	<10	<10	--	--
		06/29/23	<2.0	4.2	4.5	27	120	<1.0	2.5	<1.0	<1.0	--	--
		09/18/23	--	--	--	--	--	--	--	--	--	27	40
		12/13/23	--	--	--	--	--	--	--	--	--	21	16
DUP-1		12/13/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	5.7
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
MW-5	Active	03/30/21	<2.0	94	300	**600**	**2,600**	<1.0	19	410	10	--	--
		06/23/21	38	66	310	**860**	**2,900**	<1.0	25	<1.0	13	--	--
		09/23/21	48	57	140	**560**	**1,800**	<1.0	20	<1.0	9	--	--
		12/22/21	<2.0	71	1,700	**590**	**2,100**	<1.0	26	<1.0	<1.0	--	--
		03/23/22	<100	<200	170	**840**	**2,600**	<50	<50	<50	<50	--	--
		06/29/22	87	83	154	**1,200**	**4,100**	<1.0	31	570	107	--	--
		10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22	20	80	300	**630**	**1,900**	<10	24	<10	14	--	--
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--
		06/29/23[1]	--	--	--	--	--	--	--	--	--	--	--
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--
		03/28/24[1]	--	--	--	--	--	--	--	--	--	--	--
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
Additional VOCs detected in Groundwater
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Springfield, Oregon
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Boring ID	Well Status	Date Sampled	CM (µg/L)	IPB (µg/L)	NPB (µg/L)	1,3,5-TMB (µg/L)	1,2,4-TMB (µg/L)	SBB (µg/L)	IPT (µg/L)	TBB (µg/L)	NBB (µg/L)	2-methyl (µg/L)	1-methyl (µg/L)
			Method 8260D										
MW-6	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		09/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		12/22/21[1]	--	--	--	--	--	--	--	--	--	--	--
		03/23/22[1]	--	--	--	--	--	--	--	--	--	--	--
		06/28/22[1]	--	--	--	--	--	--	--	--	--	--	--
		10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22[1]	--	--	--	--	--	--	--	--	--	--	--
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--
		06/29/23[1]	--	--	--	--	--	--	--	--	--	--	--
		09/18/23[1]	--	--	--	--	--	--	--	--	--	--	--
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--
		03/28/24[1]	--	--	--	--	--	--	--	--	--	--	--
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--
MW-7	Active	03/30/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/23/21	<2.0	<4.0	<1.0	3.7	12	<1.0	<1.0	<1.0	<1.0	--	--
DUP-1		06/23/21	<2.0	<4.0	<1.0	1.1	3.5	<1.0	<1.0	<1.0	<1.0	--	--
		09/23/21	8.4	<4.0	<1.0	1.8	6.9	<1.0	<1.0	<1.0	<1.0	--	--
		12/22/21	18	3.9	8.9	19	71	<1.0	<1.0	<1.0	<1.0	--	--
MW-7 Dup		12/22/21	21	4.7	11	24	89	<1.0	<1.0	<1.0	<1.0	--	--
		03/23/22	4.1	7.9	20	41	130	<1.0	1.8	<1.0	<1.0	--	--
DUP-2		03/23/22	<100	<200	<50	<50	140	<50	<50	<50	<50	--	--
		06/28/22	<2.0	5.2	14	35	162	<1.0	<1.0	23	5.8	--	--
		10/12/22	<2.0	5.7	17	38	150	<1.0	<1.0	24	<1.0	--	--
		12/20/22	<2.0	4.5	13	32	120	<1.0	1.4	<1.0	<1.0	--	--
		04/06/23	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	9.5	<1.0	55	**300**	1.6	2.3	<1.0	<1.0	--	--
DUP-1		06/29/23	<2.0	9.6	29	62	**330**	1.6	2.4	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	15	10
DUP-1		09/19/23	--	--	--	--	--	--	--	--	--	12	7.6
		12/12/23	--	--	--	--	--	--	--	--	--	32	22
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/11/24	--	--	--	--	--	--	--	--	--	8.2	<5.0
MW-8	Active	12/19/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
DUP-1		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/18/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/12/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
MW-9	Active	12/19/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/18/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/12/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
DUP-1		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
MW-10	Active	12/20/22	<2.0	<4.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	--	--
DUP-1		12/20/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/18/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/12/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/11/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
MW-11	Active	12/20/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/13/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
EW-1	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21	46	100	490	**930**	**3,900**	<1.0	19	<1.0	9.3	--	--
		09/22/21	13	22	63	130	**520**	<1.0	7.0	<1.0	3.6	--	--
		12/22/21	29	29	91	220	**742**	<10	12	<10	<10	--	--
DUP-1		12/22/21	30	31	97	230	**770**	<10	11	<10	<10	--	--
	Abandoned[b]	03/23/22	--	--	--	--	--	--	--	--	--	--	--
EW-1R[7]	Active	10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22[1]	--	--	--	--	--	--	--	--	--	--	--
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	11	35	61	**1,000**	2.8	4.4	<1.0	2.8	--	--
		09/19/23[1]	--	--	--	--	--	--	--	--	--	--	--
		12/13/23[1]	--	--	--	--	--	--	--	--	--	--	--
		03/28/24[1]	--	--	--	--	--	--	--	--	--	--	--
		06/12/24[1]	--	--	--	--	--	--	--	--	--	--	--

TABLE 4
Additional VOCs detected in Groundwater
United Pacific #5468
Springfield, Oregon
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Boring ID	Well Status	Date Sampled	CM (µg/L)	IPB (µg/L)	NPB (µg/L)	1,3,5-TMB (µg/L)	1,2,4-TMB (µg/L)	SBB (µg/L)	IPT (µg/L)	TBB (µg/L)	NBB (µg/L)	2-methyl (µg/L)	1-methyl (µg/L)
			Method 8260D										
EW-2	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		09/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		12/22/21[1]	--	--	--	--	--	--	--	--	--	--	--
	Abandoned[b]	03/23/22	--	--	--	--	--	--	--	--	--	--	--
EW-2R[7]	Active	10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22[1]	--	--	--	--	--	--	--	--	--	--	--
		04/06/23	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	16	1.3	36	160	1.2	1.2	<1.0	1.3	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/13/23	--	--	--	--	--	--	--	--	--	220	260
		03/28/24	--	--	--	--	--	--	--	--	--	51	31
		06/12/24	--	--	--	--	--	--	--	--	--	65	29
EW-3	Active	03/30/21[1]	--	--	--	--	--	--	--	--	--	--	--
		06/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		09/23/21[1]	--	--	--	--	--	--	--	--	--	--	--
		12/22/21[1]	--	--	--	--	--	--	--	--	--	--	--
	Abandoned[b]	03/23/22	--	--	--	--	--	--	--	--	--	--	--
EW-4[7]	Active	10/12/22[1]	--	--	--	--	--	--	--	--	--	--	--
		12/20/22[1]	--	--	--	--	--	--	--	--	--	--	--
		04/06/23[1]	--	--	--	--	--	--	--	--	--	--	--
		06/29/23	<2.0	37	110	220	**900**	7.3	10	<1.0	8.1	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	43	25
		12/13/23	--	--	--	--	--	--	--	--	--	170	190
		03/28/24	--	--	--	--	--	--	--	--	--	92	36
		06/12/24	--	--	--	--	--	--	--	--	--	140	83
			QA/QC Samples										
EB-1		03/30/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/23/21	<2.0	<4.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	--	--
		09/23/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/22/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		03/23/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/28/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		10/12/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/19/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/12/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/11/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
EB-2		06/29/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/20/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
EB-2 Dup		12/20/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		12/13/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
Trip Blank		06/23/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/22/21	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		03/23/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		10/12/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		12/20/22	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
		09/19/23	--	--	--	--	--	--	--	--	--	--	--
		12/12/23	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		06/11/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0

TABLE 4
Additional VOCs detected in Groundwater
United Pacific #5468
Springfield, Oregon
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Boring ID	Well Status	Date Sampled	CM (µg/L)	IPB (µg/L)	NPB (µg/L)	1,3,5-TMB (µg/L)	1,2,4-TMB (µg/L)	SBB (µg/L)	IPT (µg/L)	TBB (µg/L)	NBB (µg/L)	2-methyl (µg/L)	1-methyl (µg/L)
			Method 8260D										
RBC: Injestion/Inhalation from Tapwater[2]			79	2,000	ne	280	250	ne	ne	ne	ne	ne	ne
RBC: Volatilization to Outdoor Air[3]			1,800,000	>S	ne	>S	>S	ne	ne	ne	ne	ne	ne
RBC: Volatilization to Indoor Air[4]			1,500/12,000	9,100/--	22,000/--	1,700/--	2,400/--	ne	ne	NITI	NITI	ne	ne
RBC: Groundwater in Excavations[5]			22,000	51,000	ne	7,500	6,300	ne	ne	ne	ne	ne	ne

Notes:

Results in **BOLD** indicate detections that exceed the ODEQ Risk-Based Concetrations (RBCs) for groundwater

samples analyzed for gasoline-range organics using NWTPH-Gx and BTEX using Method 8260D;

select samples further analyzed for diesel- and oil-range organics using NWTPH-Dx/Ox, for full scan VOCs using Method 8260

(1): sample not collected due to liquid-phase hydrocarbons (LPH; free-product) in well

(2): RBC for Groundwater - Injestion and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs -revised May 2018 amended June 2023)

(3): RBC for Groundwater - Volatilization to Outdoor Air, occupational receptor scenario (see ODEQ Table of RBCs - revised May 2018 amended June 2023)

(4): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see OQED Vapor Intrusion Risk-Based Concentration Table 1 - June 2023)

(5): RBC for Groundwater in Excavation, Contact to Construction and Excavation Workers

(6): Wells EW-1, EW-2, and EW-3 abandoned on March 7 and 8, 2022

(7): Wells EW-1R, EW-2R, and EW-4 installed on September 20 and 21, 2022

1,2,4-TMB: 1,2,4-trimethylbenzene

1,3,5-TMB: 1,3,5-trimethylbenzene

1-methyl: 1-methylnaphthalene

2-methyl: 2-methylnaphthalene

--: not analyzed

<: not detected at or above stated laboratory reporting limit (RL)

>S: groundwater RBC exceeds the solubility limit. Refer to RBC Table Appendix D for value of S. Groundwater concentration in excess of S indicate free product may be present

BB: butylbenzene

CM: chloromethane

DUP: duplicate sample

EB-1: Equipment blank

ft bgs: feet below ground surface

IPB: iso-propylbenzene (cumene)

IPT: p-isopropyltoluene

na: not applicable

NBB: n-butylbenzene

ne: not established on RBC Table

NITI: listed as no inhalation toxicity information

NPB: n-propylbenzene

ODEQ RBCs: State of Oregon Department of Environmental Qulity Risked-Based Concentrations

ppmv: parts per million per volume

SSB: sec-butylbenzene

TBB: tert-butylbenzene

VOCs: volatile organic compounds

Table 5
Summary of Groundwater Flow Direction and Gradient Data
United Pacific #5468
Springfield, Oregon

Date	Groundwater Gradient (ft/ft)	Groundwater Flow Direction															
		North	North-northeast	Northeast	East-northeast	East	East-southeast	Southeast	South-southeast	South	South-southwest	Southwest	West-southwest	West	West-northwest	Northwest	North-northwest
03/30/21	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
06/23/21	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
09/22/21	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
12/22/21	0.002	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0
03/23/22	0.0014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
06/28/22	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
10/12/22	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
12/20/22	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
04/06/23	0.0077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
06/29/23	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
09/19/23	0.013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
12/13/23	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
03/28/24	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
06/12/24	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	**1**	**1**	**10**	**2**

Notes:
ft/ft: feet per foot

CHARTS

CHART 1
Groundwater Elevation Trends
United Pacific #5468
Springfield, Oregon

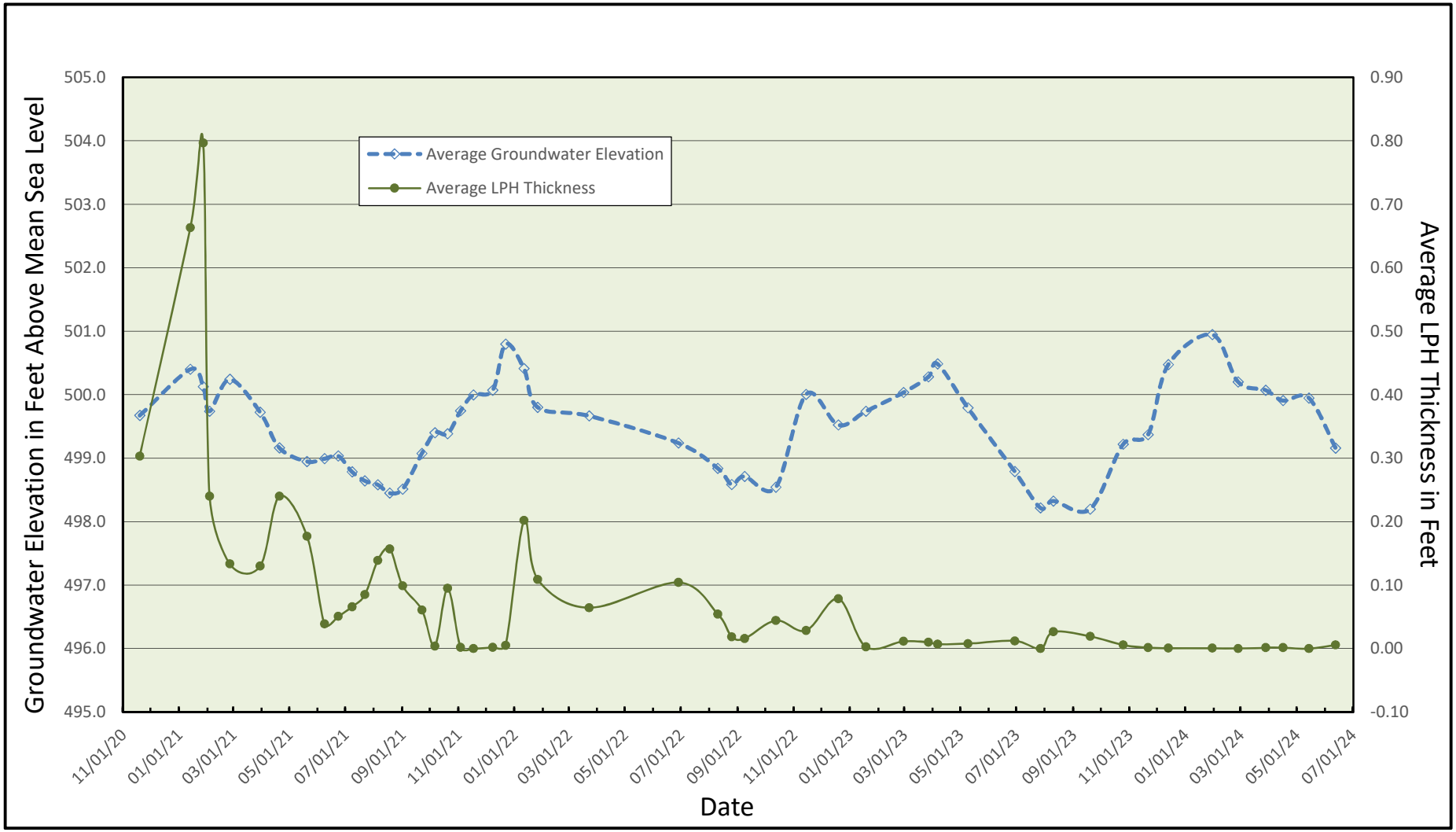


Chart 2
TPH-Gx Concentration Trends
United Pacific #5468
Springfield, Oregon

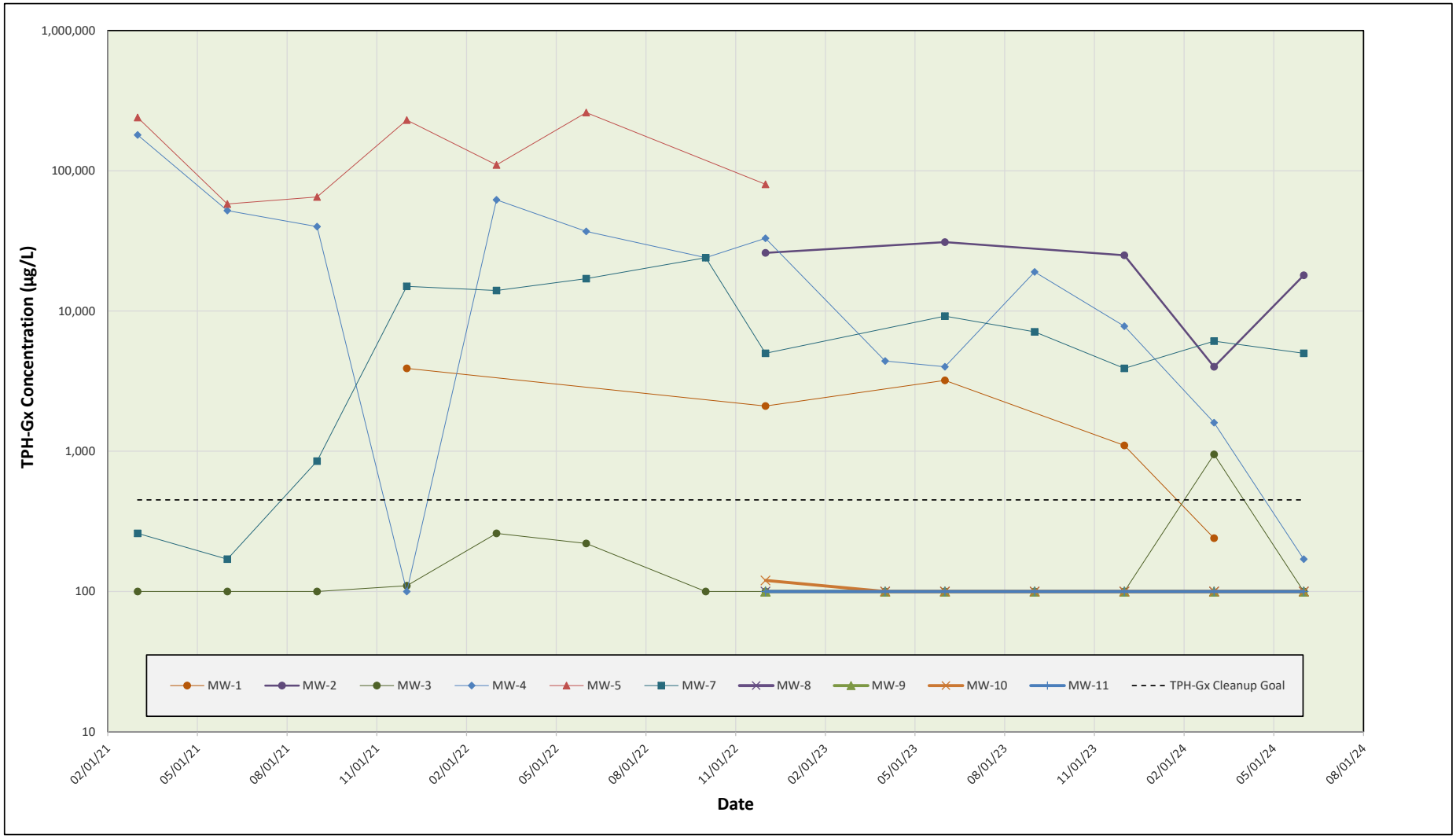
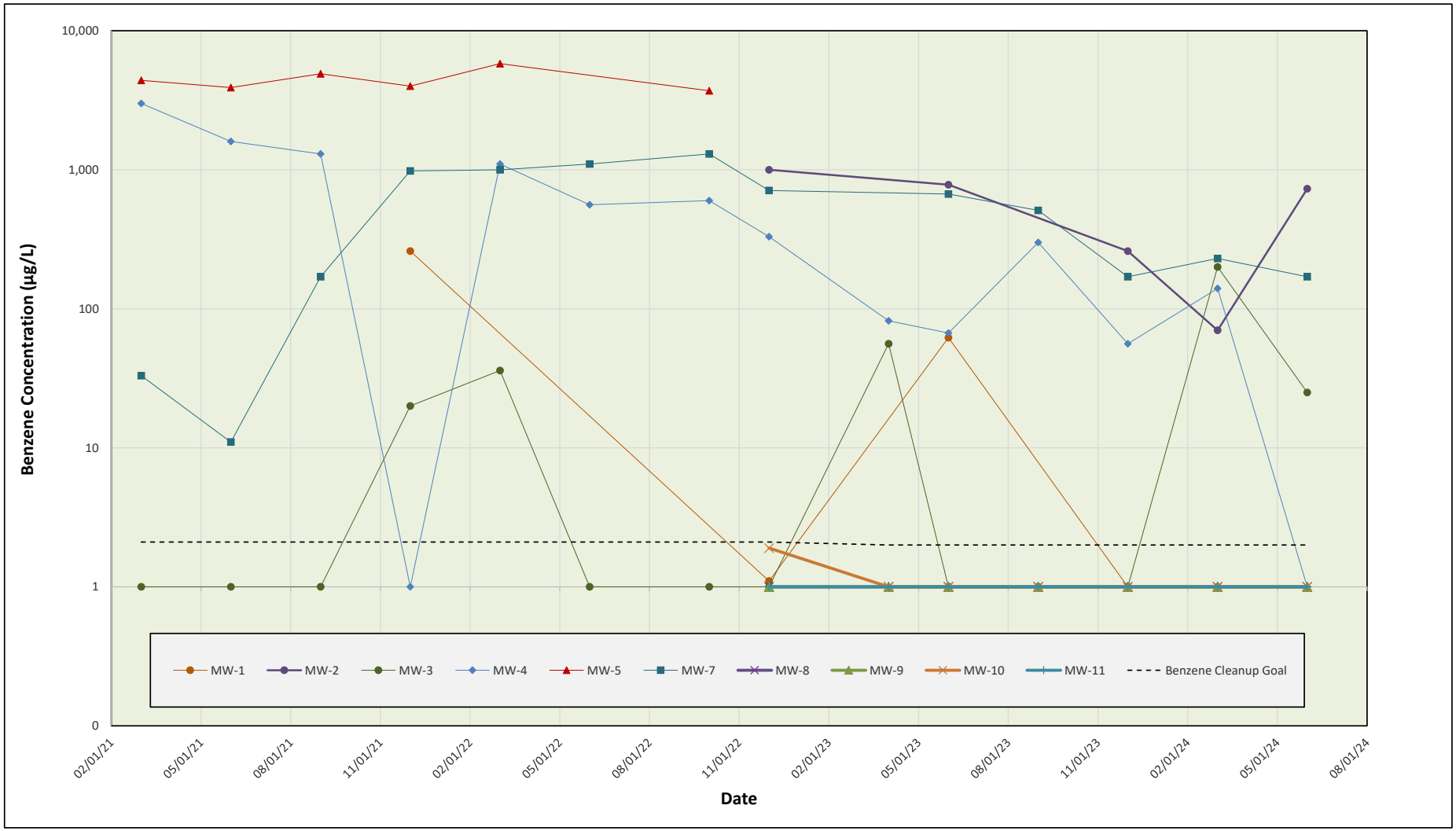


Chart 3
Benzene Concentration Trends
United Pacific #5468
Springfield, Oregon



APPENDIX A

LPH Removal Field Forms

WELL GAUGING DATA FORM

Site Name: Springfield
Project No: 5468

Location: 5720 Main St
Date: 16/Apr/24
Technician: Matt Engel

Well ID	Time	Well Dia (inch)	Sheen / Odor	Depth to Product (feet)	Thickness of Product (feet)	Depth to Water (feet)	Total Well Depth (feet below TOC)	Survey Point (TOC)	Dissolved Oxygen (mg/L)
MW-1	1222	4"	None	—	—	12.47	24.32	✓	—
MW-2	1212	4"	—	—	—	11.34	24.93	✓	—
MW-3	1155	4"	—	—	—	11.02	26.48	✓	—
MW-4	1146	4"	—	—	—	9.80	24.52	✓	—
MW-5	1440	4"	Both	—	—	9.31	22.58	✓	—
MW-6	1410	4"	Both	10.59	0.02	10.61	24.11	✓	—
MW-7	1115	4"	—	—	—	11.68	24.94	✓	—
MW-8	1132	4"	—	—	—	10.66	17.92	✓	—
MW-9	1140	4"	—	—	—	9.87	17.23	✓	—
MW-10	1122	4"	—	—	—	11.32	17.79	✓	—
MW-11	1202	2"	—	—	—	11.21	19.91	✓	—
EW-1R	1328	4"	Both	—	—	10.74	23.01	✓	—
EW-2R	1241	4"	None	—	—	10.69	22.79	✓	—
EW-4	1233	4"	None	—	—	11.45	22.84	✓	—

Notes:

N - No
Y - Yes
NA - not applicable
NM - not measured
TOC - top of casing
mg/L: milligrams per Liter

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 16/Apr/24
Well ID: EW-1R	Well Diameter (in): 4"
Total Well Depth (ft): 23.01	Depth to Water (ft): 10.74
Depth to Free Product: —	Thickness of Free Product (ft): 0.00
to: —	Equipment: Product meter

Purge Method: In-well skimmer, disposable skimmers	
Sampling Method: —	Other: —

Purge Start Time: 1324 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1324	—	10.74	2.6 gal	sheen	—

Did well dewater? : No	Amount of H20 actually evacuated: 2.6 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information: —	

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 16/Apr/24
Well ID: MW-6	Well Diameter (in): 4"
Total Well Depth (ft): 24.11	Depth to Water (ft): 10.61
Depth to Free Product: 10.59	Thickness of Free Product (ft): 0.02
to: 10.61	Equipment: Product meter

Purge Method: In-place skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1405 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1405	10.59	10.61	2.75 gal	0.01 gal	—

Did well dewater? : No	Amount of H20 actually evacuated: 2.75 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information: —	

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 16/Apr/24
Well ID: MW-5	Well Diameter (in): 4"
Total Well Depth (ft): 22.58	Depth to Water (ft): 9.31
Depth to Free Product: ND, sheen	Thickness of Free Product (ft): 0.00
to: —	Equipment: Product meter

Purge Method: In-place skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1435 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1435	—	9.31	2.40 gal	0.00	—

Did well dewater? : No	Amount of H20 actually evacuated: 2.40 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information: —	

WELLHEAD INSPECTION FORM

PN: 5468 Date: 16/Apr/24 Page: 1 of 1

Site: Springfield Client: VP

Technician: Matt Engel

Well ID	Well inspected - No corrective action required	Cap non-functional	Lock non-functional	Bolts missing (list quantity)	Tabs stripped (list quantity)	Tabs broken (list quantity)	Annular seal incomplete	Apron damaged	Rim/lid broken	Trip hazard	Below grade	Other (explain in notes)	Well not inspected (explain in notes)	NOTES - please note if cap or lock is replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe is damaged, or any other details not covered by checklist
MW-1	✓	–	–	–	–	–	–	–	–	–	–	–	–	Not flooded (NF) Protected by canopy.
MW-2	X	–	–	1	–	–	X	–	–	–	–	–	–	Partially flooded
MW-3	✓	–	–	–	–	–	–	–	–	–	–	–	–	NF
MW-4	X	–	–	1	–	–	–	–	–	–	–	–	–	NF
MW-5	✓	–	–	–	–	–	–	–	–	–	–	–	–	NF
MW-6	✓	–	–	–	–	–	–	–	–	–	–	–	–	1 bolt w/3 mm, rest 15 mm. Glove helped.
MW-7	X	–	–	1	–	1	X	–	–	–	–	–	–	Not flooded
MW-8	X	–	–	–	–	–	X	–	–	–	–	–	–	Partially flooded
MW-9	X	–	–	–	–	–	X	–	–	–	–	–	–	Partially flooded
MW-10	X	–	–	2	–	1	–	–	–	–	–	–	–	NF
MW-11	X	–	–	1	–	–	X	–	–	–	–	–	–	Completely flooded
EW-1R	X	–	–	–	–	–	–	–	–	–	–	–	–	Partially flooded. Seal adjusted back in place
EW-2R	X	–	–	–	–	–	X	–	–	–	–	–	–	Partially flooded
EW-4	✓	–	–	–	–	–	–	–	–	–	–	–	–	NF

2nd Quarter

DRUM LOG

Site Name/No.: Springfield Project No.: 5468

Site Address.: 5720 Main St, Springfield, OR

STATUS OF DRUM(S) UPON ARRIVAL					
Date:	16/Apr/24				
Number of Drums empty:	1				
Number of drums 1/4 full:	0				
Number of drums 1/2 full:	1				
Number of drums 3/4 full:	ME 1 all full				
Total drums onsite:	3				
Are the drums property labeled?	Yes				
Drum ID and contents:	Purgewater, LPH				
If any drums are partially or totally filled, what is the first used date?	June, 2023 Apr. 1, 2024 new drum				

-If free product is added to a drum, the drum must contain at least 20 gallons of water.

-If drum contains free-product, it MUST be steel and appropriately labeled (haz-waste sticker)

STATUS OF DRUM(S) UPON DEPARTURE					
Date:	16/Apr/24				
Number of Drums empty:	1				
Number of drums 1/4 full:	0				
Number of drums 1/2 full:	1				
Number of drums 3/4 full:	0				
Total drums onsite:	3				
Are the drums property labeled?	Yes				
Drum ID and contents:	Purgewater, LPH				
If any drums are partially or totally filled, what is the first used date?	1 completely full June, 2023 1 new, Apr 2024				

LOCATION OF DRUMS
Near dumpsters, N of station

FINAL STATUS					
Number of new drum(s) left onsite this event:	1				
Date of inspection:	16/Apr/24				
Drums labeled properly?:	Yes				
Technician's initals:	ME				

WELL GAUGING DATA FORM

Site Name: Springfield
Project No: 5466

Location: 5720 Main St, Springfield, OR
Date: 14-15/May/24
Technician: Matt Engel

Well ID	Time	Well Dia (inch)	Sheen / Odor	Depth to Product (feet)	Thickness of Product (feet)	Depth to Water (feet)	Total Well Depth (feet below TOC)	Survey Point (TOC)	Dissolved Oxygen (mg/L)
MW-1	1631	4"	—	—	—	12.56	24.55	✓	—
MW-2	1622	4"	—	—	—	11.45	25.18	✓	—
MW-3	1609	4"	—	—	—	11.11	26.59	✓	—
MW-4	1757	4"	—	—	—	9.73	24.03	✓	—
MW-5	1048	4"	Odor/sheen	—	Sheen	9.12	22.71	✓	—
MW-6	1027	4"	Odor	—	—	10.46	24.36	✓	—
MW-7	1651	4"	—	—	—	11.65	25.02	✓	—
MW-8	1726	4"	—	—	—	10.60	18.17	✓	—
MW-9	1735	4"	—	—	—	9.81	17.40	✓	—
MW-10	1710	4"	—	—	—	11.36	16.29	✓	—
MW-11	1628	2"	N/A	—	—	11.25	19.92	✓	—
EW-1R	1002	4"	Odor	—	—	10.56	27.60	✓	—
EW-2R	0949	4"	—	—	—	10.76	22.94	✓	—
EW-4	0933	4"	Odor	—	—	11.34	22.98	✓	—

Notes:

N - No
Y - Yes
NA - not applicable
NM - not measured
TOC - top of casing
mg/L: milligrams per Liter

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 15/Mar/24
Well ID: MW-5	Well Diameter (in): 4"
Total Well Depth (ft): 22.71	Depth to Water (ft): 9.12
Depth to Free Product: Sheen	Thickness of Free Product (ft): Sheen
to: ~	Equipment: Product meter

Purge Method: In-well skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1045 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1045	Sheen	9.12	2.75	0.00	—

Did well dewater? : No	Amount of H20 actually evacuated: 2.75
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information:	
—	

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 15/May/24
Well ID: MW-6	Well Diameter (in): 4"
Total Well Depth (ft): 24.36	Depth to Water (ft): 10.46
Depth to Free Product: —	Thickness of Free Product (ft): —
to: —	Equipment: Product meter

Purge Method: In-well skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1020 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1020	—	10.46	2.25	0.05	—

Did well dewater?: No	Amount of H20 actually evacuated: 2.30
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information: —	

LPH Removal Field Sheet

Project No.: 5468	Springfield
Sampler: Matt Engel	Gauging Date: 15/May/24
Well ID: EW-1R	Well Diameter (in): 4"
Total Well Depth (ft): 22.60	Depth to Water (ft): 10.56
Depth to Free Product: —	Thickness of Free Product (ft): 0.00
to: —	Equipment: Product meter

Purge Method: In-well skimmer, disposable bailer

Sampling Method: — Other: —

Purge Start Time: 0958 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
0956	—	10.56	2.70	0.00	sheen removed

Did well dewater?: No	Amount of H20 actually evacuated: 2.70 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —

Other Information:

—

WELLHEAD INSPECTION FORM

PN: 5468 Date: 14-15/May/24 Page: 1 of 1

Site: 5720 Main St, Springfield, OR Client: United Pacific

Technician: Matt Engel

Well ID	Well inspected - No corrective action required	Cap non-functional	Lock non-functional	Bolts missing (list quantity)	Tabs stripped (list quantity)	Tabs broken (list quantity)	Annular seal incomplete	Apron damaged	Rim/lid broken	Trip hazard	Below grade	Other (explain in notes)	Well not inspected (explain in notes)	NOTES - please note if cap or lock is replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe is damaged, or any other details not covered by checklist
MW-1	✓	–	–	–	–	–	–	–	–	–	–	–	–	PF - partially flooded
MW-2	X	–	–	1	–	–	–	–	–	–	–	–	–	PF
MW-3	✓	–	–	–	–	–	–	–	–	–	–	–	–	
MW-4	X	–	–	1	–	–	–	–	–	–	–	–	–	
MW-5	✓	–	–	–	–	–	–	–	–	–	–	–	–	
MW-6	✓	–	–	–	–	–	–	–	–	–	–	–	–	
MW-7	X	–	–	1	–	1	–	–	–	–	–	–	–	
MW-8	X	–	–	–	–	–	–	–	–	–	–	–	–	PF
MW-9	X	–	–	–	–	–	–	–	–	–	–	–	–	PF
MW-10	X	–	–	2	–	1	–	–	–	–	–	–	–	
MW-11	X	–	–	1	–	–	–	–	–	–	–	–	–	PF
EW-1R	X	–	–	–	–	–	–	–	–	–	–	–	–	
EW-2R	X	–	–	–	–	–	–	–	–	–	–	–	–	PF
EW-4	✓	–	–	–	–	–	–	–	–	–	–	–	–	

2nd Quarter

DRUM LOG

Site Name/No.: Springfield Project No.: 5468

Site Address.: 5720 Main St, Springfield, OR

STATUS OF DRUM(S) UPON ARRIVAL					
Date:	16/Apr/24	14/May/24			
Number of Drums empty:	1	0			
Number of drums 1/4 full:	0	1			
Number of drums 1/2 full:	1	1			
Number of drums 3/4 full: ~~ME~~	1 all full	0			
Total drums onsite:	3	2			
Are the drums property labeled?	Yes	Yes			
Drum ID and contents:	Purgewater, LPH	Same			
If any drums are partially or totally filled, what is the first used date?	June, 2023 April, 2024 new drum	Same			

-If free product is added to a drum, the drum must contain at least 20 gallons of water.

-If drum contains free-product, it MUST be steel and appropriately labeled (haz-waste sticker)

STATUS OF DRUM(S) UPON DEPARTURE					
Date:	16/Apr/24	15/May/24			
Number of Drums empty:	1	0			
Number of drums 1/4 full:	0	1			
Number of drums 1/2 full:	1	1			
Number of drums 3/4 full:	0	0			
Total drums onsite:	3	2			
Are the drums property labeled?	Yes	Yes			
Drum ID and contents:	Purgewater, LPH	Same			
If any drums are partially or totally filled, what is the first used date?	1 completely full June, 2023 1 new, Apr 2024	Same			

LOCATION OF DRUMS
Near dumpsters, N of station

FINAL STATUS					
Number of new drum(s) left onsite this event:	1	0			
Date of inspection:	16/Apr/24	15/May/24			
Drums labeled properly?:	Yes	Yes			
Technician's initals:	ME	ME			

APPENDIX B

Site Background Information

SITE BACKGROUND
United Pacific #5468
5720 Main Street
Springfield Oregon

Site Assessment and Remediation History

The Site is an active retail fueling station located on the north side of Main Street, approximately 500 feet east of the intersection of Main Street and Bob Straub Parkway. The Site is located at the southern end of a large parking lot for multiple retail stores and restaurants. The property is improved with a convenience store and canopy covering four dispenser islands, each with one fuel dispenser. Gasoline and diesel fuel are both dispensed at the Site.

Three USTs are located on the Site; two contain unleaded gasoline and one contains diesel fuel. The capacities of the USTs are 12,000 gallons each. Note that the UST containing premium grade gasoline, suspected of leaking, was emptied and is not in use; UP plans to replace the entire fuel distribution system at the Site. The regular grade gasoline and diesel USTs are currently active.

A petroleum release at the Site was reported to DEQ in 1989. Various groundwater monitoring wells and remediation wells were installed and a remediation system was operated at the Site. A second fuel release was reported in 1997 and the remediation system operated until 2000. Numerous site assessments and groundwater monitoring events were conducted throughout the years and eventually, in 2012, the Site was granted NFA status by DEQ and the environmental issues at the Site were considered resolved.

On September 21, 2020, UP notified the DEQ of a failure of the UST containing premium gasoline at the Site and that the tank had been emptied and taken offline. On September 22, 2020, UP contacted Montrose to relay concerns regarding one of the USTs at the Site; the continuous statistical leak detection (CSLD) system had indicated a failure of the UST containing premium gasoline. On September 23, 2020, a *UST Petroleum Release Form* was submitted to the DEQ to further document the release. On September 24, 2020, Montrose performed a visit to inspect the Site and review recent fuel inventory records (kept in the convenience store office). Based on conversations with the station manager and a review of fuel inventory documents, problems with the fuel inventory were first observed on or around August 13, 2020. On September 15, 2020, the station stopped dispensing premium gasoline and over the next several days, physical measurements of the fuel level in the premium UST indicated that gasoline was exiting the system.

On September 19, 2020, approximately 3,914 gallons of gasoline was removed from the premium UST and on September 23, 2020, the fuel level was pumped down to the lowest achievable level and the fuel was transported offsite for disposal.

On October 13, 2020, Montrose prepared and submitted an Initial (Twenty Day) Report Form for UST Cleanup Projects to the DEQ and DEQ assigned the following leaking underground storage tank (LUST) number to the Site: 20-20-0844. Note, the Site had previously been identified by the following underground storage tank (UST) number: 791.

In November 2020, Montrose performed an initial site assessment which included advancing six soil borings (SB-1 through SB-6) using direct-push drilling techniques and the installation of three LPH extraction wells (EW-1 through EW-3) using roto-sonic drilling techniques. Visible LPH was observed during the advancement of Borings SB-2 through SB-5 and therefore, soil samples were only collected from Borings SB-1 and SB-6. Wells EW-1 through EW-3 were installed in an effort to access and recover the LPH observed during the initial direct-push drilling. Complete details of the work were reported in the *Initial Site Assessment and Interim Remedial Action Report,* dated December 15, 2021. Three soil samples collected contained COCs at concentrations exceeding the DEQ's RBCs for the leaching to groundwater scenario.

During January and February 2021, Montrose performed four separate LPH removal events, during which LPH and impacted groundwater were removed from Wells EW-1 through EW-3. LPH was recovered using various techniques including manual bailing and the use of a vacuum truck. On February 25, 2021, passive down-hole product skimmers were installed in Wells EW-2 and EW-3 to enhance recovery of LPH.

In February and March 2021, Montrose conducted additional site assessment work at the Site which included a vapor intrusion (VI) assessment, utility corridor assessment, and well installation activities. The VI assessment consisted of the collection of two sub-slab soil gas samples (SVP-1 and SVP-2), one indoor ambient air sample, and one outdoor ambient air sample. Additionally, seven groundwater monitoring wells (MW-1 through MW-7) were installed at the Site. Results of the VI assessment indicated that vapors from the liquid phase and dissolved phase hydrocarbon plumes beneath the Site did not currently pose a threat to either indoor or outdoor air. Soil samples collected from five of the seven wells contained COCs at concentrations exceeding DEQ's RBCs for the leaching to groundwater scenario. Following well installation, quarterly groundwater monitoring was initiated at the Site. Initial groundwater monitoring results indicated the presence of LPH or elevated COC concentrations in a majority of the wells. Complete details were reported in the *Additional Site Assessment, Well Installation, Vapor Intrusion, and Groundwater Monitoring Report*, dated June 7, 2021.

In September 2021, additional sub-slab soil vapor and indoor air and ambient air sampling was conducted. The results were reported in the *Third Quarter 2021 Air Monitoring Report*, dated November 16, 2021. Quarterly groundwater monitoring, continued VI assessment and LPH removal efforts are ongoing.

Montrose submitted the *Workplan for Additional Soil and Groundwater Investigation*, dated October 12, 2021, which proposed the installation of up to five additional groundwater monitoring wells, one soil vapor probe, continued vapor intrusion assessment, the collection of additional vapor and ambient air samples, and the completion of a preliminary site conceptual model. The DEQ concurred with the Workplan in their letter dated December 6, 2021.

In December 2021, additional sub-slab soil vapor and indoor air and ambient air sampling was conducted with the results presented in the *Fourth Quarter 2021 Air Monitoring Report,* dated March 10, 2022. The preliminary site conceptual model was completed by Montrose on February 1, 2022, and was sent to the DEQ and UP.

In February 2022, extraction wells EW-1, EW-2 and EW-3, located adjacent to the UST cavity, were decommissioned in advance of planned replacement of the fuel distribution system at the site. The field activities were summarized in the *Well Decommissioning Report*, dated April 25, 2022.

Beginning in March 2022, the fuel distribution system at the Site was replaced by Anderson Environmental Contracting of Kelso, Washington. Following removal of the old USTs, approximately 660 tons of petroleum contaminated soil (PCS) was over-excavated from the UST pit and exported to Coffin Butte Landfill, in Corvallis, Oregon. In addition to soil removal, approximately 47,000 gallons of UST pit water was pumped and disposed of to facilitate the installation of the two new USTs; one 20,000-gallon tank containing diesel and one 20,000-gallon dual-compartment UST containing 12,000-gallons of unleaded gasoline and 8,000-gallons of premium gasoline. Montrose conducted the decommissioning soil sampling as required by Oregon state law. Several soil samples collected from beneath former product lines contained COCs at concentrations exceeding applicable CULs. Montrose directed the over-excavation of soil from those areas and collected confirmation soil samples to show that all PCS was removed. Installation of the new fuel distribution system and rehabilitation of the Site was complete by June 30, 2022.

In September 2022, Montrose conducted drilling activities at the Site which included the installation of three replacement wells identified as EW-1R, EW-2R, and EW-4. The three wells serve as replacements for Wells EW-1, EW-2, and EW-3 that were formally decommissioned in February 2022, prior to the replacement of the fuel distribution system.

In November 2022, Montrose conducted additional assessment activities at the Site which included the installation of four groundwater monitoring wells at locations which served to further delineate hydrocarbon impacts beneath the site and neighboring properties. The wells were identified as MW-8 through MW-11. A fifth well was planned but was ultimately not installed due to time constraints for the project. Soil samples were collected from each of the borings and analyzed for fuel constituents. COCs were not detected at concentrations exceeding applicable CULs. Complete results were presented in the *Additional Site Assessment and Fourth Quarter 2022 Groundwater Monitoring Report*, dated March 2, 2023.

In March 2023, a limited step pumping test was performed in order to determine certain aquifer parameters and to acquire field data needed to assist in the design of a long-term remedial plan for the Site. Results of the test were presented in the *Aquifer Pumping Test Report*, dated May 31, 2023. The pumping test was performed in general accordance with *Workplan for Remedial Pilot Testing*, dated December 5, 2022.

Quarterly groundwater monitoring and periodic LPH removal efforts are ongoing at the Site while remedial strategies are being evaluated.

APPENDIX C

Laboratory Analytical Report

Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957
Phone (360) 352-2110 • libbyenv@gmail.com

June 18, 2024

Laura Skow
Montrose Environmental Group, Inc.
4150 B Place NW, Suite 106
Auburn, WA 98001

RE: Springfield
Work Order Number: L24F034

Enclosed are the results of analyses for samples received by our laboratory on 6/13/2024.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.c

Date: 13/June/24 Page: 1 of 1

Client: Montrose Environmental (ME)
Address: 1631 E Saint Andrew Pl
City: Santa Ana State: CA Zip: 92705
Phone: 714-743-7655 Fax: —
Client Project # PO-0662480

Project Manager: Laura Skow
Project Name: Springfield
Location: 5720 Main St City, State: Springfield, OR
Collector: Matt Engel Date of Collection: 11-12/June/24
Email: lskow@montrose-env.com, maengel@same

	Sample Number	DATE ~~Depth~~	Time	Sample Type	Container Type	VOC 8260 (MTCA)	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	Lead			Field Notes
1	MW-2	12/June	1535	GW	3 VOAs, 1 Poly	✓		✓									✓				
2	MW-3	12/June	1625			✓		✓									✓				
3	MW-4	12/Jun	1400			✓		✓									✓				
4	MW-7	11/June	1835			✓		✓									✓				
5	MW-6	12/June	1249			✓		✓									✓				
6	MW-9	12/June	1331			✓		✓									✓				
7	MW-10	11/June	1919			✓		✓									✓				
8	MW-11	12/June	1440			✓		✓									✓				
9	EW-2R	12/June	1629			✓		✓									✓				
10	EW-4	12/June	1717			✓		✓									✓				
11	TB	—	—			✓		✓													
12	EB-1	11/June	1755			✓		✓									✓				
13	EB-2	12/June	1455			✓		✓									✓				
14	DUP-1	—	—			✓		✓									✓				
15																					
16																					
17																					

Relinquished by:	Date / Time	Received by:	Date / Time
Matt Engel	13/Jun/24 1405	Kristina Kerr	10-13-24 1405
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt

	Y	N
Good Condition?		
Cooler Temp.		°C
Sample Temp.		°C
Total Number of Containers		

Remarks:

TAT: 1-Day 2-Day 5-DAY

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

Montrose Environmental Group, Inc.
4150 B Place NW, Suite 106
Auburn, WA 98001

Project: Springfield

Project Manager: Laura Skow

City/State: Springfield, OR
Work Order: L24F034
Reported: 06/18/2024 15:41

Notes and Definitions

Item	Definition
A	Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
R	High Relative Percent Difference observed.
S1	Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
S3	Outlying spike recovery observed (high bias). Analyte will be qualified with a ** if detected.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
	All results reported on an "as received" basis unless indicated by "Dry"
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L24F034-01	MW-2	Water	06/12/2024	06/13/2024
L24F034-02	MW-3	Water	06/12/2024	06/13/2024
L24F034-03	MW-4	Water	06/12/2024	06/13/2024
L24F034-04	MW-7	Water	06/11/2024	06/13/2024
L24F034-05	MW-8	Water	06/12/2024	06/13/2024
L24F034-06	MW-9	Water	06/12/2024	06/13/2024
L24F034-07	MW-10	Water	06/11/2024	06/13/2024
L24F034-08	MW-11	Water	06/12/2024	06/13/2024
L24F034-09	EW-2R	Water	06/12/2024	06/13/2024
L24F034-10	EW-4	Water	06/12/2024	06/13/2024
L24F034-11	TB	Water	06/12/2024	06/13/2024
L24F034-12	EB-1	Water	06/11/2024	06/13/2024
L24F034-13	EB-2	Water	06/12/2024	06/13/2024
L24F034-14	DUP-1	Water	06/12/2024	06/13/2024

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Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: **MW-2**			Lab#: L24F034-01		
Gasoline	18000		ug/L	500	NWTPH-Gx
Benzene	730		ug/L	5.0	8260D
Toluene	1000		ug/L	10	8260D
Ethylbenzene	800		ug/L	5.0	8260D
Total Xylenes	1100		ug/L	10	8260D
Naphthalene	82		ug/L	5.0	8260D
2-Methylnaphthalene	35		ug/L	5.0	8260D
1-Methylnaphthalene	24		ug/L	5.0	8260D
Sample: **MW-3**			Lab#: L24F034-02		
Benzene	25		ug/L	1.0	8260D
Sample: **MW-4**			Lab#: L24F034-03		
Gasoline	170		ug/L	100	NWTPH-Gx
Total Xylenes	20		ug/L	2.0	8260D
Naphthalene	15		ug/L	5.0	8260D
Sample: **MW-7**			Lab#: L24F034-04		
Gasoline	5000		ug/L	1000	NWTPH-Gx
Benzene	170		ug/L	1.0	8260D
Toluene	12		ug/L	2.0	8260D
Ethylbenzene	200		ug/L	10	8260D
Total Xylenes	920		ug/L	20	8260D
Naphthalene	72		ug/L	5.0	8260D
2-Methylnaphthalene	8.2		ug/L	5.0	8260D
Sample: **EW-2R**			Lab#: L24F034-09		
Gasoline	89000		ug/L	10000	NWTPH-Gx
Benzene	2300		ug/L	100	8260D
Toluene	19000		ug/L	200	8260D
Ethylbenzene	2000		ug/L	100	8260D
Total Xylenes	20000		ug/L	200	8260D
Naphthalene	800		ug/L	50	8260D
2-Methylnaphthalene	65		ug/L	5.0	8260D
1-Methylnaphthalene	29		ug/L	5.0	8260D

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Libby Environmental Sample Detection Summary (Continued)

Analyte	Result	Qual	Units	RL	Method
Sample: **EW-4**			Lab#: L24F034-10		
Gasoline	68000		ug/L	10000	NWTPH-Gx
Benzene	3400		ug/L	100	8260D
Toluene	16000		ug/L	200	8260D
Ethylbenzene	1900		ug/L	10	8260D
Total Xylenes	9300		ug/L	200	8260D
Naphthalene	750		ug/L	50	8260D
2-Methylnaphthalene	140		ug/L	5.0	8260D
1-Methylnaphthalene	83		ug/L	5.0	8260D
Sample: **DUP-1**			Lab#: L24F034-14		
Gasoline	8700		ug/L	1000	NWTPH-Gx
Benzene	530		ug/L	10	8260D
Toluene	710		ug/L	20	8260D
Ethylbenzene	570		ug/L	10	8260D
Total Xylenes	750		ug/L	20	8260D
Naphthalene	77		ug/L	5.0	8260D
2-Methylnaphthalene	31		ug/L	5.0	8260D
1-Methylnaphthalene	19		ug/L	5.0	8260D

Note: If no entry is made, then no target compounds were detected.

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Sample Results

Client Sample ID: MW-2

Lab ID: L24F034-01 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	730		5.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	1000		10	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	800		5.0	ug/L	06/14/2024	PB
Total Xylenes	1100		10	ug/L	06/14/2024	PB
Naphthalene	82		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	35		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	24		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*122%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*115%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*107%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*111%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	18000		500	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*107%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-3

Lab ID: L24F034-02 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	25		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*123%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*121%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*90.2%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*80.7%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*90.2%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-4

Lab ID: L24F034-03 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	20		2.0	ug/L	06/14/2024	PB
Naphthalene	15		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*138%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*141%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*88.6%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*100%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	170		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*88.6%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-7

Lab ID: L24F034-04 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	170		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	12		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	200		10	ug/L	06/14/2024	PB
Total Xylenes	920		20	ug/L	06/14/2024	PB
Naphthalene	72		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	8.2		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*111%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*108%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*90.2%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*110%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	5000		1000	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*83.4%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-8

Lab ID: L24F034-05 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*139%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*136%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*94.5%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*76.6%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*94.5%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-9

Lab ID: L24F034-06 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*144%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*132%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*96.2%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*78.7%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*96.2%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-10

Lab ID: L24F034-07 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*142%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*129%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*96.8%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*77.7%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*96.8%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: MW-11

Lab ID: L24F034-08 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*144%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*132%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*94.6%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*81.6%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*94.6%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: EW-2R

Lab ID: L24F034-09 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/17/2024	PB
Benzene	2300		100	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/17/2024	PB
Toluene	19000		200	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/17/2024	PB
Ethylbenzene	2000		100	ug/L	06/14/2024	PB
Total Xylenes	20000		200	ug/L	06/14/2024	PB
Naphthalene	800		50	ug/L	06/14/2024	PB
2-Methylnaphthalene	65		5.0	ug/L	06/17/2024	PB
1-Methylnaphthalene	29		5.0	ug/L	06/17/2024	PB
Surrogate: Dibromofluoromethane	*129%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*129%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*91.2%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*107%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	89000		10000	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*91.2%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Project Manager: Laura Skow

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Sample Results (Continued)

Client Sample ID: EW-4

Lab ID: L24F034-10 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/17/2024	PB
Benzene	3400		100	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/17/2024	PB
Toluene	16000		200	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/17/2024	PB
Ethylbenzene	1900		10	ug/L	06/14/2024	PB
Total Xylenes	9300		200	ug/L	06/14/2024	PB
Naphthalene	750		50	ug/L	06/14/2024	PB
2-Methylnaphthalene	140		5.0	ug/L	06/17/2024	PB
1-Methylnaphthalene	83		5.0	ug/L	06/17/2024	PB
Surrogate: Dibromofluoromethane	*117%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*123%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*95.1%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*109%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	68000		10000	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*92.1%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: TB

Lab ID: L24F034-11 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*144%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*130%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*96.0%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*78.8%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*96.0%*		*52.9-135*		*06/14/2024*	*PB*

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Sample Results (Continued)

Client Sample ID: EB-1

Lab ID: L24F034-12 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*145%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*132%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*101%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*83.0%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*101%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: EB-2

Lab ID: L24F034-13 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	ND		1.0	ug/L	06/14/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	ND		2.0	ug/L	06/14/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	ND		1.0	ug/L	06/14/2024	PB
Total Xylenes	ND		2.0	ug/L	06/14/2024	PB
Naphthalene	ND		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	ND		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*143%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*135%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*100%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*79.0%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	06/14/2024	PB
Surrogate: Toluene-d8	*100%*		*52.9-135*		*06/14/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Sample Results (Continued)

Client Sample ID: DUP-1

Lab ID: L24F034-14 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D						
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	06/14/2024	PB
Benzene	530		10	ug/L	06/17/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	06/14/2024	PB
Toluene	710		20	ug/L	06/17/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	06/14/2024	PB
Ethylbenzene	570		10	ug/L	06/17/2024	PB
Total Xylenes	750		20	ug/L	06/17/2024	PB
Naphthalene	77		5.0	ug/L	06/14/2024	PB
2-Methylnaphthalene	31		5.0	ug/L	06/14/2024	PB
1-Methylnaphthalene	19		5.0	ug/L	06/14/2024	PB
Surrogate: Dibromofluoromethane	*102%*		*49.6-175*		*06/14/2024*	*PB*
Surrogate: 1,2-Dichloroethane-d4	*92.1%*		*31.7-194*		*06/14/2024*	*PB*
Surrogate: Toluene-d8	*105%*		*52.9-135*		*06/14/2024*	*PB*
Surrogate: 4-Bromofluorobenzene	*110%*		*50.8-121*		*06/14/2024*	*PB*
Gasoline by Method NWTPH-Gx						
Gasoline	8700		1000	ug/L	06/17/2024	PB
Surrogate: Toluene-d8	*101%*		*52.9-135*		*06/17/2024*	*PB*
Total Metals by EPA Method 7010						
Lead	ND		5.0	ug/L	06/17/2024	AA

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Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYF0066 - VOA										
Blank (BYF0066-BLK1)					Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L						
Benzene	ND		1.0	ug/L						
1,2-Dichloroethane (EDC)	ND		1.0	ug/L						
Toluene	ND		2.0	ug/L						
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L						
Ethylbenzene	ND		1.0	ug/L						
Total Xylenes	ND		2.0	ug/L						
Naphthalene	ND		5.0	ug/L						
2-Methylnaphthalene	ND		5.0	ug/L						
1-Methylnaphthalene	ND		5.0	ug/L						
Surrogate: Dibromofluoromethane			*28.2*	*ug/L*	*20.0*		*141*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*26.8*	*ug/L*	*20.0*		*134*	*31.7-194*		
Surrogate: Toluene-d8			*21.3*	*ug/L*	*20.0*		*106*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*16.0*	*ug/L*	*20.0*		*79.9*	*50.8-121*		
LCS (BYF0066-BS1)					Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	10.3	S3	5.0	ug/L	5.00		206	29.6-190		
Benzene	4.35		1.0	ug/L	5.00		87.0	54.1-136		
1,2-Dichloroethane (EDC)	6.34		1.0	ug/L	5.00		127	52.8-185		
Toluene	4.79		2.0	ug/L	5.00		95.9	53.3-135		
1,2-Dibromoethane (EDB) (SIM)	6.05		0.010	ug/L	5.00		121	34.5-141		
Ethylbenzene	3.60		1.0	ug/L	5.00		72.0	51.1-125		
Total Xylenes	9.84		2.0	ug/L	15.0		65.6	47.2-123		
Naphthalene	10.6		5.0	ug/L	5.00		212	10-220		
2-Methylnaphthalene	9.65		5.0	ug/L				16.1-204		
1-Methylnaphthalene	9.83		5.0	ug/L				10-205		
Surrogate: Dibromofluoromethane			*27.4*	*ug/L*	*20.0*		*137*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*27.1*	*ug/L*	*20.0*		*135*	*31.7-194*		
Surrogate: Toluene-d8			*19.7*	*ug/L*	*20.0*		*98.4*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*20.5*	*ug/L*	*20.0*		*102*	*50.8-121*		
Duplicate (BYF0066-DUP1)		**Parent: L24F034-08**			Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L		ND				35
Benzene	ND		1.0	ug/L		ND				35
1,2-Dichloroethane (EDC)	ND		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Naphthalene	ND		5.0	ug/L		ND				35
2-Methylnaphthalene	ND		5.0	ug/L		ND				35
1-Methylnaphthalene	ND		5.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			*28.6*	*ug/L*	*20.0*		*143*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*25.2*	*ug/L*	*20.0*		*126*	*31.7-194*		
Surrogate: Toluene-d8			*19.6*	*ug/L*	*20.0*		*98.2*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*15.9*	*ug/L*	*20.0*		*79.4*	*50.8-121*		

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Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BYF0066-DUP2)		**Parent: L24F034-13**			Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L		ND				35
Benzene	ND		1.0	ug/L		ND				35
1,2-Dichloroethane (EDC)	ND		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
1,2-Dibromoethane (EDB) (SIM)	0.149		0.010	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Naphthalene	ND		5.0	ug/L		ND				35
2-Methylnaphthalene	ND		5.0	ug/L		ND				35
1-Methylnaphthalene	ND		5.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			*27.8*	*ug/L*	*20.0*		*139*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*27.2*	*ug/L*	*20.0*		*136*	*31.7-194*		
Surrogate: Toluene-d8			*19.3*	*ug/L*	*20.0*		*96.6*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*16.8*	*ug/L*	*20.0*		*84.2*	*50.8-121*		
Matrix Spike (BYF0066-MS1)		**Parent: L24F034-13**			Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	9.12	S1	5.0	ug/L	5.00	ND	182	55.3-168		
Benzene	4.82		1.0	ug/L	5.00	ND	96.3	55.1-155		
1,2-Dichloroethane (EDC)	5.90		1.0	ug/L	5.00	ND	118	38.2-189		
Toluene	5.13		2.0	ug/L	5.00	ND	103	23-175		
1,2-Dibromoethane (EDB) (SIM)	6.22		0.010	ug/L	5.00	ND	124	44.7-143		
Ethylbenzene	3.94		1.0	ug/L	5.00	ND	78.8	57-127		
Total Xylenes	10.7		2.0	ug/L	15.0	ND	71.2	44.1-133		
Naphthalene	8.05		5.0	ug/L	5.00	ND	161	22.3-211		
2-Methylnaphthalene	3.14		5.0	ug/L		ND		10-200		
1-Methylnaphthalene	2.44		5.0	ug/L		ND		10-209		
Surrogate: Dibromofluoromethane			*23.3*	*ug/L*	*20.0*		*117*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*25.6*	*ug/L*	*20.0*		*128*	*31.7-194*		
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*21.4*	*ug/L*	*20.0*		*107*	*50.8-121*		
Matrix Spike Dup (BYF0066-MSD1)		**Parent: L24F034-13**			Prepared & Analyzed: 6/14/2024					
Methyl tert-Butyl Ether (MTBE)	8.74	S1	5.0	ug/L	5.00	ND	175	55.3-168	4.27	35
Benzene	4.34		1.0	ug/L	5.00	ND	86.8	55.1-155	10.4	35
1,2-Dichloroethane (EDC)	5.40		1.0	ug/L	5.00	ND	108	38.2-189	8.69	35
Toluene	4.45		2.0	ug/L	5.00	ND	88.9	23-175	14.2	35
1,2-Dibromoethane (EDB) (SIM)	5.52		0.010	ug/L	5.00	ND	110	44.7-143	12.0	35
Ethylbenzene	3.49		1.0	ug/L	5.00	ND	69.8	57-127	12.2	35
Total Xylenes	8.93		2.0	ug/L	15.0	ND	59.5	44.1-133	17.9	35
Naphthalene	9.52		5.0	ug/L	5.00	ND	190	22.3-211	16.7	35
2-Methylnaphthalene	11.0	R	5.0	ug/L		ND		10-200	111	35
1-Methylnaphthalene	11.3	R	5.0	ug/L		ND		10-209	129	35
Surrogate: Dibromofluoromethane			*25.8*	*ug/L*	*20.0*		*129*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*24.4*	*ug/L*	*20.0*		*122*	*31.7-194*		
Surrogate: Toluene-d8			*19.0*	*ug/L*	*20.0*		*94.8*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*50.8-121*		
Blank (BYF0074-BLK1)					Prepared & Analyzed: 6/17/2024					
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L						
Benzene	ND		1.0	ug/L						
1,2-Dichloroethane (EDC)	ND		1.0	ug/L						
Toluene	ND		2.0	ug/L						
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L						

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Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BYF0074-BLK1)					Prepared & Analyzed: 6/17/2024					
Ethylbenzene	ND		1.0	ug/L						
Total Xylenes	ND		2.0	ug/L						
Naphthalene	ND		5.0	ug/L						
2-Methylnaphthalene	ND		5.0	ug/L						
1-Methylnaphthalene	ND		5.0	ug/L						
Surrogate: Dibromofluoromethane			*28.1*	*ug/L*	*20.0*		*140*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*25.3*	*ug/L*	*20.0*		*126*	*31.7-194*		
Surrogate: Toluene-d8			*23.8*	*ug/L*	*20.0*		*119*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*15.2*	*ug/L*	*20.0*		*76.1*	*50.8-121*		
LCS (BYF0074-BS1)					Prepared & Analyzed: 6/17/2024					
Methyl tert-Butyl Ether (MTBE)	9.35		5.0	ug/L	5.00		187	29.6-190		
Benzene	5.22		1.0	ug/L	5.00		104	54.1-136		
1,2-Dichloroethane (EDC)	6.28		1.0	ug/L	5.00		126	52.8-185		
Toluene	5.58		2.0	ug/L	5.00		112	53.3-135		
1,2-Dibromoethane (EDB) (SIM)	6.33		0.010	ug/L	5.00		127	34.5-141		
Ethylbenzene	4.22		1.0	ug/L	5.00		84.4	51.1-125		
Total Xylenes	11.3		2.0	ug/L	15.0		75.2	47.2-123		
Naphthalene	9.39		5.0	ug/L	5.00		188	10-220		
2-Methylnaphthalene	9.30		5.0	ug/L				16.1-204		
1-Methylnaphthalene	9.18		5.0	ug/L				10-205		
Surrogate: Dibromofluoromethane			*26.2*	*ug/L*	*20.0*		*131*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*26.0*	*ug/L*	*20.0*		*130*	*31.7-194*		
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.5*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*20.7*	*ug/L*	*20.0*		*104*	*50.8-121*		
Duplicate (BYF0074-DUP1)		**Parent: L24F034-14RE1**			Prepared & Analyzed: 6/17/2024					
Methyl tert-Butyl Ether (MTBE)	ND		50	ug/L		ND				35
Benzene	519		10	ug/L		534			2.83	35
1,2-Dichloroethane (EDC)	ND		10	ug/L		ND				35
Toluene	674		20	ug/L		714			5.88	35
1,2-Dibromoethane (EDB) (SIM)	ND		0.10	ug/L		ND				35
Ethylbenzene	562		10	ug/L		570			1.45	35
Total Xylenes	755		20	ug/L		754			0.148	35
Naphthalene	61.8		50	ug/L		53.7			13.9	35
2-Methylnaphthalene	ND		50	ug/L		ND				35
1-Methylnaphthalene	ND		50	ug/L		ND				35
Surrogate: Dibromofluoromethane			*23.7*	*ug/L*	*20.0*		*119*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*24.1*	*ug/L*	*20.0*		*121*	*31.7-194*		
Surrogate: Toluene-d8			*18.7*	*ug/L*	*20.0*		*93.6*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*20.2*	*ug/L*	*20.0*		*101*	*50.8-121*		

Montrose Environmental Group, Inc.
4150 B Place NW, Suite 106
Auburn, WA 98001

Project: Springfield

Project Manager: Laura Skow

City/State: Springfield, OR
Work Order: L24F034
Reported: 06/18/2024 15:41

Quality Control
(Continued)

Volatile Organic Compounds by EPA Method 8260D (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BYF0074-MS1)		**Parent: L24F034-14RE1**			Prepared & Analyzed: 6/17/2024					
Methyl tert-Butyl Ether (MTBE)	52.9		50	ug/L	50.0	ND	106	55.3-168		
Benzene	575		10	ug/L	50.0	534	81.4	55.1-155		
1,2-Dichloroethane (EDC)	64.1		10	ug/L	50.0	ND	128	38.2-189		
Toluene	735		20	ug/L	50.0	714	41.0	23-175		
1,2-Dibromoethane (EDB) (SIM)	63.9		0.10	ug/L	50.0	ND	128	44.7-143		
Ethylbenzene	609		10	ug/L	50.0	570	78.3	57-127		
Total Xylenes	917		20	ug/L	150	754	109	44.1-133		
Naphthalene	136		50	ug/L	50.0	53.7	165	22.3-211		
2-Methylnaphthalene	40.3		50	ug/L		ND		10-200		
1-Methylnaphthalene	30.5		50	ug/L		ND		10-209		
Surrogate: Dibromofluoromethane			*25.4*	*ug/L*	*20.0*		*127*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*23.8*	*ug/L*	*20.0*		*119*	*31.7-194*		
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.4*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*21.1*	*ug/L*	*20.0*		*105*	*50.8-121*		
Matrix Spike Dup (BYF0074-MSD1)		**Parent: L24F034-14RE1**			Prepared & Analyzed: 6/17/2024					
Methyl tert-Butyl Ether (MTBE)	48.7		50	ug/L	50.0	ND	97.4	55.3-168	8.17	35
Benzene	612	A	10	ug/L	50.0	534	157	55.1-155	6.35	35
1,2-Dichloroethane (EDC)	44.1	R	10	ug/L	50.0	ND	88.2	38.2-189	37.0	35
Toluene	798		20	ug/L	50.0	714	168	23-175	8.25	35
1,2-Dibromoethane (EDB) (SIM)	46.0		0.10	ug/L	50.0	ND	91.9	44.7-143	32.7	35
Ethylbenzene	784	A	10	ug/L	50.0	570	428	57-127	25.1	35
Total Xylenes	1150	A	20	ug/L	150	754	263	44.1-133	22.3	35
Naphthalene	134		50	ug/L	50.0	53.7	160	22.3-211	1.84	35
2-Methylnaphthalene	67.0	R	50	ug/L		ND		10-200	49.9	35
1-Methylnaphthalene	61.9	R	50	ug/L		ND		10-209	67.9	35
Surrogate: Dibromofluoromethane			*21.3*	*ug/L*	*20.0*		*106*	*49.6-175*		
Surrogate: 1,2-Dichloroethane-d4			*15.1*	*ug/L*	*20.0*		*75.7*	*31.7-194*		
Surrogate: Toluene-d8			*18.8*	*ug/L*	*20.0*		*94.0*	*52.9-135*		
Surrogate: 4-Bromofluorobenzene			*19.0*	*ug/L*	*20.0*		*95.0*	*50.8-121*		

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Quality Control
(Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYF0066 - VOA										
Blank (BYF0066-BLK1)					Prepared & Analyzed: 6/14/2024					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*21.3*	*ug/L*	*20.0*		*106*	*52.9-135*		
Duplicate (BYF0066-DUP1)		**Parent: L24F034-08**			Prepared & Analyzed: 6/14/2024					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*19.6*	*ug/L*	*20.0*		*98.2*	*52.9-135*		
Duplicate (BYF0066-DUP2)		**Parent: L24F034-13**			Prepared & Analyzed: 6/14/2024					
Gasoline	ND		100	ug/L		ND				35
Surrogate: Toluene-d8			*19.3*	*ug/L*	*20.0*		*96.6*	*52.9-135*		
Blank (BYF0074-BLK1)					Prepared & Analyzed: 6/17/2024					
Gasoline	ND		100	ug/L						
Surrogate: Toluene-d8			*23.8*	*ug/L*	*20.0*		*119*	*52.9-135*		
Duplicate (BYF0074-DUP1)		**Parent: L24F034-14RE1**			Prepared & Analyzed: 6/17/2024					
Gasoline	8220		1000	ug/L		8750			6.29	35
Surrogate: Toluene-d8			*18.7*	*ug/L*	*20.0*		*93.6*	*52.9-135*		

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Quality Control
(Continued)

Total Metals by EPA Method 7010

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYF0073 - Metals Digest										
Blank (BYF0073-BLK1)					Prepared & Analyzed: 6/17/2024					
Lead	ND		5.0	ug/L						
LCS (BYF0073-BS1)					Prepared & Analyzed: 6/17/2024					
Lead	21.8		5.0	ug/L	20.0		109	80-120		
LCS Dup (BYF0073-BSD1)					Prepared & Analyzed: 6/17/2024					
Lead	22.7		5.0	ug/L	20.0		114	80-120	4.02	20
Duplicate (BYF0073-DUP1)		**Parent: L24F030-01**			Prepared & Analyzed: 6/17/2024					
Lead	ND		5.0	ug/L		ND				20
Duplicate (BYF0073-DUP2)		**Parent: L24F034-05**			Prepared & Analyzed: 6/17/2024					
Lead	ND		5.0	ug/L		ND				20
Matrix Spike (BYF0073-MS1)		**Parent: L24F030-01**			Prepared & Analyzed: 6/17/2024					
Lead	20.5		5.0	ug/L	20.0	ND	103	75-125		
Matrix Spike Dup (BYF0073-MSD1)		**Parent: L24F030-01**			Prepared & Analyzed: 6/17/2024					
Lead	18.6		5.0	ug/L	20.0	ND	93.0	75-125	9.86	20

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Flooring N More Soils Project
Krazan & Associates, Inc.
Libby Work Order # L24F035
Date Received 6/14/2024
Time Received 10:45 AM

Received By KLI

Sample Receipt Checklist

Chain of Custody

1. Is the Chain of Custody is complete?	☑ Yes	☐ No	
2. How was the sample delivered?	☑ Hand Delivered	☐ Picked Up	☐ Shipped

Log In

3. Cooler or Shipping Container is present.	☑ Yes	☐ No	☐ N/A
4. Cooler or Shipping Container is in good condition.	☑ Yes	☐ No	☐ N/A
5. Cooler or Shipping Container has Custody Seals present.	☐ Yes	☑ No	☐ N/A
6. Was an attempt made to cool the samples?	☑ Yes	☐ No	☐ N/A
7. Temperature of cooler (0°C to 8°C recommended)	1.6 °C		
8. Temperature of sample(s) (0°C to 8°C recommended)	4.9 °C		
9. Did all containers arrive in good condition (unbroken)?	☑ Yes	☐ No	
10. Is it clear what analyses were requested?	☑ Yes	☐ No	
11. Did container labels match Chain of Custody?	☑ Yes	☐ No	
12. Are matrices correctly identified on Chain of Custody?	☑ Yes	☐ No	
13. Are correct containers used for the analysis indicated?	☑ Yes	☐ No	
14. Is there sufficient sample volume for indicated analysis?	☑ Yes	☐ No	
15. Were all containers properly preserved per each analysis?	☑ Yes	☐ No	
16. Were VOA vials collected correctly (no headspace)?	☐ Yes	☑ No	☐ N/A
17. Were all holding times able to be met?	☑ Yes	☐ No	

Discrepancies/ Notes

18. Was client notified of all discrepancies?	☐ Yes	☑ No	☐ N/A

Person Notified: _____ Date: 6/13/2024

By Whom: _____ Via: _____

Regarding: _____

19. Comments. 1 VOA from sample EW-4 has an 8mm bubble

APPENDIX D

Groundwater Monitoring Field Forms

WELL GAUGING DATA FORM

Site Name: Springfield
Project No: 5468

Location: 5720 Main St, Springfield, OR
Date: 11-12/June/24
Technician: Matt Engel

Well ID	Time	Well Dia (inch)	Sheen / Odor	Depth to Product (feet)	Thickness of Product (feet)	Depth to Water (feet)	Total Well Depth (feet below TOC)[1]	Date of Sample	Time of Sample
MW-1	1640	4"	Both	13.29	0.01	13.30	24.31	—	—
MW-2	1510	4"	—	—	—	11.98	24.93	12/Jun	1535
MW-3	1605	4"	—	—	—	11.67	26.78	12/Jun	1625
MW-4	1343	4"	—	—	—	10.38	23.73	12/Jun	1400
MW-5	1945	4"	Both	10.04	Sheen	10.04	see below 22.54	—	—
MW-6	1920	4"	Both	11.34	0.04	11.36	24.14	—	—
MW-7	1818	4"	—	—	—	12.47	24.94	11/Jun	1835
MW-8	1232	4"	—	—	—	11.63	17.97	12/Jun	1249
MW-9	1312	4"	—	—	—	10.61	17.24	12/Jun	1331
MW-10	1859	4"	—	—	—	12.21	17.78	11/Jun	1919
MW-11	1418	~~4~~ 2"	—	—	—	11.80	19.91	12/Jun	1440
EW-1R	1905	4"	Both	11.51	0.03	11.54	23.04	—	—
EW-2R	1810	4"	—	—	—	11.66	22.80	12/Jun	1629
EW-4	1700	4"	—	—	—	12.20	22.73	12/Jun	1717
OBS-NW	2011	4"	—	—	—	12.17	16.11	—	—
OBS-NE	2035	4"	—	—	—	12.29	14.90	—	—
OBS-SE	2030	4"	—	—	—	11.91	14.86	—	—
OBS-SW	2025	4"	—	—	—	11.17	13.45	—	—

Notes:

Dup-1 @ MW-2
EB-1 @ 1755, 11/Jun
EB-2 @ 1455, 12/Jun
★ = LPH Removal — = 11/June sample

At MW-5, thick layer of algae-like layer prevented locating product depth with any certainty, total depth: 22.54

N - No
Y - Yes
NA - not applicable
NM - not measured
TOC - top of casing
mg/L: milligrams per Liter

[1] - if not TOC, survey point will be noted

LPH Removal Field Sheet

Project No.: 5469	Springfield
Sampler: Matt Engel	Gauging Date: 12/Jun/24
Well ID: MW-1	Well Diameter (in): 4"
Total Well Depth (ft): 24.31	Depth to Water (ft): 13.30
Depth to Free Product: 13.29	Thickness of Free Product (ft): 0.01
to: 13.30	Equipment: YSI DSS

Purge Method: Disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1645 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1645	13.29	13.30	0.5 gal	Sheen	—

Did well dewater? : No	Amount of H20 actually evacuated: 0.5 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information:	

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 12/Jun/24
ES Personnel: Matt Engel

Well Number: MW-2
Equipment: YSI DSS
Sample ID/Time: 1535
Contractor: —

Well Diameter: 4"
Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	11.98	12.04
Depth of Well (ft)	24.93	NA
Water Column Height (ft)	12.95	12.89
Calculated Drawdown (ft)	NA	0.06
Depth to Top of Screen	5'	
Screen Length (ft)	20'	
Pump depth (ft)	14'	

System Volume[(a)] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 2450
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1515	—	12.02	—	0.88	-303.3	518	6.94	18.1	178.95	Black
1518	600	12.02	200	0.41	-317.2	519	6.91	18.4	46.02	Gray
1521	600	12.02	200	0.19	-318.6	521	6.93	18.2	11.02	clr w/ particles
1524	600	12.02	200	0.11	-316.4	521	6.93	18.6	33.30	—
1527	650	12.02	217	0.07	-318.4	522	6.94	18.5	9.78	—
			Stability:	± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...) Dup-1 here

Dissolved Iron (Fe^{+2}) = ~6.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 12/5/11
ES Personnel: Matt Engel

Well Number: MW-3
Equipment: YSI DSS
Sample ID/Time: 1625
Contractor: —

Well Diameter: 4"
Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	11.67	11.73
Depth of Well (ft)	26.76	NA
Water Column Height (ft)	15.11	15.05
Calculated Drawdown (ft)	NA	0.06
Depth to Top of Screen	5'	
Screen Length (ft)	20'	
Pump depth (ft)	14'	

System Volume[a] (ml) =bladder + discharge tubing

Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 1750
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection

1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1611	—	11.71	—	1.17	-212.7	393.0	6.92	18.0	5.46	Clr
1614	600	11.73	200	0.35	-197.1	386.5	6.93	14.0	6.88	=
1617	550	11.73	183	0.21	-203.1	386.0	6.94	17.7	6.89	=
1620	600	11.74	200	0.16	-206.4	388.4	6.95	17.8	6.98	—
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ~0.5

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5466
Date: 12/Jan/24
ES Personnel: Matt Engel

Well Number: MW-4
Equipment: YSI DSS
Sample ID/Time: 1400
Contractor: ---

Well Diameter: 4" Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	10.36	10.59
Depth of Well (ft)	23.73	NA
Water Column Height (ft)	13.35	13.14
Calculated Drawdown (ft)	NA	0.21
Depth to Top of Screen	5'	
Screen Length (ft)	20'	
Pump depth (ft)	12'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): ---
Volume of flow through cell (ml): ---
Radius of dishcarge tubing (ft): ---
Length of discharge tubing (ft): ---
System Volume (ml): ---
Total Volume Purged (ml): 1400
Total No. of SV Purged: ---

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1345	—	10.49	—	0.99	-93.6	492.6	6.96	17.2	2.11	Clr
1348	600	10.53	200	0.35	-100.2	491.5	7.00	17.9	2.69	Clr
1351	600	10.55	200	0.24	-110.0	490.7	7.01	17.7	4.90	—
1354	600	10.58	200	0.17	-119.2	489.9	7.02	17.9	9.67	—
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ~0.0

LPH Removal Field Sheet

Project No.: 52668	Springfield
Sampler: Matt Engel	Gauging Date: 12/June/24
Well ID: MW-5	Well Diameter (in): 4"
Total Well Depth (ft): 22.54	Depth to Water (ft): ~10.04
Depth to Free Product: ~10.04	Thickness of Free Product (ft): Sheen*
to: ~10.04	Equipment: YSI DSS

Purge Method: In-well skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1942 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1945	10.04	10.04	3.5 gal	Sheen	See notes below.

Thick layer of algae blocked interface probe from making clean contact with boundary between oil and water. As such, depth to free product is estimated. In-well skimmer was adjusted to better draw in product.

Did well dewater? : —	Amount of H2O actually evacuated: 3.5 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information: —	

LPH Removal Field Sheet

Project No.: 5466	Springfield
Sampler: Matt Engel	Gauging Date: 12/Jun/24
Well ID: MW-6	Well Diameter (in): 4"
Total Well Depth (ft): 24.14	Depth to Water (ft): 11.38
Depth to Free Product: 11.34	Thickness of Free Product (ft): 0.04
to: 11.38	Equipment: YSI DSS

Purge Method: In-well skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1917 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1920	11.34	11.38	1.4 gal	0.1 gal	—

—

Did well dewater? : No	Amount of H2O actually evacuated: 1.5 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other information:	

—

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 11/June/24
ES Personnel: Matt Engel

Well Number: MW-7
Equipment: YSI DSS
Sample ID/Time: 1835
Contractor: —

Well Diameter: 4"
Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	12.47	12.66
Depth of Well (ft)	24.94	NA
Water Column Height (ft)	12.47	12.06
Calculated Drawdown (ft)	NA	0.41
Depth to Top of Screen	5'	
Screen Length (ft)	20'	
Pump depth (ft)	14'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): ------
Volume of flow through cell (ml): ------
Radius of dishcarge tubing (ft): ------
Length of discharge tubing (ft): ------
System Volume (ml): ------
Total Volume Purged (ml): 1650
Total No. of SV Purged: ------

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1821	—	12.64	—	0.85	-239.6	795	6.66	17.8	14.14	Clr w/ many parts
1824	600	12.76	200	0.23	-255.7	784	6.68	17.6	11.32	Clr, less parts
1827	650	12.82	217	0.15	-264.5	783	6.69	17.7	11.06	—
1830	600	12.86	200	0.11	-272.9	784	6.71	17.7	10.90	—
			Stability:	± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = 6.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 12/Jan/24
ES Personnel: Matt Engel

Well Number: MW-8
Equipment: YSI DSS
Sample ID/Time: 1249
Contractor:

Well Diameter: 4" Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	11.63	11.82
Depth of Well (ft)	17.93	NA
Water Column Height (ft)	6.34	6.15
Calculated Drawdown (ft)	NA	0.19
Depth to Top of Screen	8'	
Screen Length (ft)	10'	
Pump depth (ft)	13'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 1950
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1235	–	11.74	–	5.31	58.0	290.8	6.30	18.0	3.98	Clr
1238	750	11.81	250	5.43	73.5	286.6	6.33	17.5	2.55	–
1241	600	11.80	200	5.61	76.5	287.0	6.35	17.6	20.99	–
1244	600	11.81	200	5.49	76.3	288.0	6.35	17.7	7.95	–
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...) Turbidity abnormal, ok.

Dissolved Iron (Fe^{+2}) = ~ 0.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: 5466
Project Number: Springfield
Date: 12/3/20
ES Personnel: Matt Engel

Well Number: MW-9
Equipment: YSI DSS
Sample ID/Time: 1331
Contractor:

Well Diameter: 4"
Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	10.61	10.69
Depth of Well (ft)	17.24	NA
Water Column Height (ft)	6.63	6.55
Calculated Drawdown (ft)	NA	0.00
Depth to Top of Screen	7'	
Screen Length (ft)	10'	
Pump depth (ft)	12'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): ------
Volume of flow through cell (ml): ------
Radius of dishcarge tubing (ft): ------
Length of discharge tubing (ft): ------
System Volume (ml): ------
Total Volume Purged (ml): 2600
Total No. of SV Purged: ------

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1314	—	10.68	—	3.00	67.0	269.5	5.95	16.3	1.81	Clr
1317	750	10.70	250	1.79	62.0	268.1	6.00	16.2	4.16	—
1320	650	10.72	217	1.71	59.8	268.7	6.01	16.6	9.30	—
1323	600	10.71	200	1.79	57.1	266.6	6.02	16.7	9.02	—
1326	600	10.71	200	1.76	54.0	267.7	6.02	16.7	16.30	—
			Stability:	± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ~0.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5466
Date: 11/Jan/24
ES Personnel: Matt Engel

Well Number: MW-10
Equipment: YSI DSS
Sample ID/Time: 1919
Contractor: —

Well Diameter: 4" Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	12.21	12.40
Depth of Well (ft)	17.78	NA
Water Column Height (ft)	5.57	5.38
Calculated Drawdown (ft)	NA	0.19
Depth to Top of Screen	7'	
Screen Length (ft)	10'	
Pump depth (ft)	14'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 1900
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1903	—	12.31	—	5.39	17.7	402.9	6.36	17.5	9.27	Clr
1906	600	12.34	200	5.06	23.8	397.0	6.38	17.7	5.86	—
1909	600	12.36	200	5.00	21.4	392.1	6.37	17.4	3.85	—
1912	700	12.39	233	4.96	20.3	390.1	6.37	17.3	4.50	—
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ~0.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5168
Date: 12/5and/24
ES Personnel: Matt Engel

Well Number: MW-1
Equipment: YSI DSS
Sample ID/Time: 1440
Contractor: —

Well Diameter: 2"
Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	11.90	12.11
Depth of Well (ft)	19.91	NA
Water Column Height (ft)	8.11	7.80
Calculated Drawdown (ft)	NA	0.31
Depth to Top of Screen	7'	
Screen Length (ft)	10'	
Pump depth (ft)	13'	

System Volume[(a)] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): ------
Volume of flow through cell (ml): ------
Radius of dishcarge tubing (ft): ------
Length of discharge tubing (ft): ------
System Volume (ml): ------
Total Volume Purged (ml): 1950
Total No. of SV Purged: ------

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1424	—	12.02	—	6.30	-77.9	376.2	6.22	19.3	8.40	clr
1427	750	12.09	250	6.56	84.4	373.4	6.19	18.2	63.59	gray
1430	600	12.13	200	6.25	86.5	371.9	6.20	18.1	16.13	clr
1433	600	12.15	200	6.66	89.0	367.4	6.19	17.9	7.08	—
			Stability:	± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ~0.0

LPH Removal Field Sheet

Project No.: 5466	Springfield
Sampler: Matt Engel	Gauging Date: 12/5 & 12/24
Well ID: EW-1R	Well Diameter (in): 4"
Total Well Depth (ft): 23.04	Depth to Water (ft): 11.54
Depth to Free Product: 11.51	Thickness of Free Product (ft): 0.03
to: 11.54	Equipment: YSI DSS

Purge Method: In-well skimmer, disposable bailer	
Sampling Method: —	Other: —

Purge Start Time: 1940 Flow Rate: — Pump Depth (ft): —

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
1940	11.51	11.54	1.95 gal	0.05 gal	—

Did well dewater?: No	Amount of H20 actually evacuated: 2 gal
Sampling Time: —	Sampling Date: —
Sample ID: —	Laboratory: —
Analyzed for: —	
Equipment Blank ID: —	Duplicate ID: —
Other Information:	

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 12/Sun
ES Personnel: Matt Engel

Well Number: EW-2R
Equipment: YSI. DSS
Sample ID/Time: 1829
Contractor: —

Well Diameter: 4" Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	11.66	11.72
Depth of Well (ft)	22.80	NA
Water Column Height (ft)	11.14	11.09
Calculated Drawdown (ft)	NA	0.06
Depth to Top of Screen	13'	
Screen Length (ft)	10'	
Pump depth (ft)	14'	

System Volume[a] (ml) =bladder + discharge tubing

Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 1900
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection

1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1813	—	11.72	—	0.86	-210.4	659	6.61	16.8	5.89	Clr
1816	700	11.71	233	0.25	-219.6	673	6.66	16.9	4.71	—
1819	600	11.71	200	0.19	-221.5	676	6.69	16.8	4.73	—
1822	600	11.72	200	0.13	-225.4	673	6.70	17.0	13.80	—
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = w/ 0.0

LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: Springfield
Project Number: 5468
Date: 12/Sun/24
ES Personnel: Matt Engel

Well Number: EW-4
Equipment: YSI DSS
Sample ID/Time: 1717
Contractor: —

Well Diameter: 4" Casing Material: PVC
Reference: Top of Casing

	Before	After
Depth to Water (ft)	12.20	12.30
Depth of Well (ft)	22.73	NA
Water Column Height (ft)	10.53	10.43
Calculated Drawdown (ft)	NA	0.10
Depth to Top of Screen	13'	
Screen Length (ft)	10'	
Pump depth (ft)	14'	

System Volume[a] (ml) =bladder + discharge tubing
Volume of bladder pump (ml): -----
Volume of flow through cell (ml): -----
Radius of dishcarge tubing (ft): -----
Length of discharge tubing (ft): -----
System Volume (ml): -----
Total Volume Purged (ml): 2000
Total No. of SV Purged: -----

Notes/Calcs: (a): flow cell disconnected before sample collection
1ft of tubing = 10ml

WATER QUALITY INDICATOR PARAMETERS

Time	Volume (ml)	Water Level (ft)	Pumping Rate (ml/s)	DO (mg/L)	ORP (mV)	Conductivity (µs/cm)	pH	Temp (°C)	Turbidity (NTU)	Color
1702	—	12.28	—	1.17	-232.0	522	6.89	1300.1	17.3	Black
1705	700	12.30	233	0.23	-227.0	517	6.93	17.5	294.80	cloudy/grey
1708	700	12.30	233	0.16	-222.3	516	6.94	17.4	146.10	—
1711	600	12.29	200	0.12	-221.9	517	6.95	17.2	181.20	—
Stability:				± 0.2 mg/L	± 20 mV	± 3-5%	± 0.2 units	± 0.2 units	± 10%	

Notes: (weather, well and well box conditions, etc...)

Dissolved Iron (Fe^{+2}) = ≈ 10.0

WELLHEAD INSPECTION FORM

PN: 5468 Date: 11-12/June/24 Page: 1 of 1

Site: 5720 Main St, Springfield, OR Client: UP

Technician: Matt Engel

Well ID	Well inspected - No corrective action required	Cap non-functional	Lock non-functional	Bolts missing (list quantity)	Tabs stripped (list quantity)	Tabs broken (list quantity)	Annular seal incomplete	Apron damaged	Rim/lid broken	Trip hazard	Below grade	Other (explain in notes)	Well not inspected (explain in notes)	NOTES - please note if cap or lock is replaced, if there are access issues associated with repairs. if traffic control is required, if stand pipe is damaged, or any other details not covered by checklist
MW-1	X	-	-	2	-	-	-	-	-	-	-	-	-	
MW-2	X	-	-	1	-	-	-	-	-	-	-	-	-	
MW-3	✓	-	-	-	-	-	-	-	-	-	-	-	-	Flooded
MW-4	✓	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	✓	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6	✓	-	-	-	-	-	-	-	-	-	-	-	-	
MW-7	X	-	-	1	-	-	-	-	-	-	-	-	-	
MW-8	✓	-	-	-	-	-	-	-	-	-	-	-	-	
MW-9	✓	-	-	-	-	-	-	-	-	-	-	-	-	
MW-10	X	-	-	2	-	-	-	-	-	-	-	-	-	
MW-11	X	-	-	1	-	-	-	-	-	-	-	-	-	
EW-1R	✓	-	-	-	-	-	-	-	-	-	-	-	-	
EW-2R	✓	-	-	-	-	-	-	-	-	-	-	-	-	Flooded
EW-4	✓	-	-	-	-	-	-	-	-	-	-	-	-	

2nd Quarter

DRUM LOG

Site Name/No.: Springfield Project No.: 5468

Site Address.: 5720 Main St, Springfield, OR

STATUS OF DRUM(S) UPON ARRIVAL					
Date:	16/Apr/24	14/May/24	11/Jun/24		
Number of Drums empty:	1	0	0		
Number of drums 1/4 full:	0	1	1		
Number of drums 1/2 full:	1	1	1		
Number of drums 3/4 full:	ME 1 all full	0	0		
Total drums onsite:	3	2	2		
Are the drums property labeled?	Yes	Yes	Yes		
Drum ID and contents:	Purgewater, LNH	Same	Same		
If any drums are partially or totally filled, what is the first used date?	June, 2023 Apr, 2024 new drum	Same	Same		

-If free product is added to a drum, the drum must contain at least 20 gallons of water.

-If drum contains free-product, it MUST be steel and appropriately labeled (haz-waste sticker)

STATUS OF DRUM(S) UPON DEPARTURE					
Date:	16/Apr/24	15/May/24	12/Jun/24		
Number of Drums empty:	1	0	0		
Number of drums 1/4 full:	0	1	1		
Number of drums 1/2 full:	1	1	1		
Number of drums 3/4 full:	0	0	1		
Total drums onsite:	3	2	2		
Are the drums property labeled?	Yes	Yes	Yes		
Drum ID and contents:	Purgewater, LNH	Same	Same		
If any drums are partially or totally filled, what is the first used date?	1 completely full June, 2023 1 new, Apr 2024	Same	Same		

LOCATION OF DRUMS
Near dumpsters, N of station

FINAL STATUS					
Number of new drum(s) left onsite this event:	1	0	0		
Date of inspection:	16/Apr/24	15/May/24	12/June/24		
Drums labeled properly?:	Yes	Yes	Yes		
Technician's initals:	ME	ME	ME		

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: [illegible] Page: 1 of 1

Client: [illegible] Project Manager: [illegible]

Address: [illegible] Project Name: [illegible]

City: [illegible] State: [illegible] Zip: [illegible] Location: [illegible] City, State: [illegible]

Phone: [illegible] Fax: [illegible] Collector: [illegible] Date of Collection: [illegible]

Client Project # [illegible] Email: [illegible]

Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270	Lead			Field Notes
1 MW-2	[illegible]	[illegible]	GW	[illegible]	✓		✓									✓				
2 MW-3	[illegible]	[illegible]			✓		✓									✓				
3 MW-4	[illegible]	[illegible]			✓		✓									✓				
4 MW-7	[illegible]	[illegible]			✓		✓									✓				
5 MW-8	[illegible]	[illegible]			✓		✓									✓				
6 MW-9	[illegible]	[illegible]			✓		✓									✓				
7 MW-10	[illegible]	[illegible]			✓		✓									✓				
8 MW-11	[illegible]	[illegible]			✓		✓									✓				
9 EW-2R	[illegible]	[illegible]			✓		✓									✓				
10 EW-4	[illegible]	[illegible]			✓		✓									✓				
11 TB	—	—			✓		✓													
12 FB-1	[illegible]	[illegible]			✓		✓									✓				
13 FB-2	[illegible]	[illegible]			✓		✓									✓				
14 DUP-1	—	—			✓		✓									✓				
15																				
16																				
17																				

Relinquished by: [illegible] Date / Time [illegible] Received by: [illegible] Date / Time [illegible]

Relinquished by: Date / Time Received by: Date / Time

Relinquished by: Date / Time Received by: Date / Time

Sample Receipt

Good Condition? Y N

Cooler Temp. °C

Sample Temp. °C

Total Number of Containers

Remarks:

TAT: 1-Day 2-Day 5-DAY

Distribution: White - Lab, Yellow - Originator

APPENDIX E

Montrose Groundwater Sampling Field Procedures

MONITORING WELL SAMPLING PROTOCOLS

The groundwater sampling procedures used by Montrose Environmental (Montrose) are designed to comply with local regulatory guidance and reflect the current professional standards and practices employed in the industry. A description of the groundwater sampling procedures is provided below.

Well Gauging

Initial site activities include determination of well locations based on a current site map. The area around each well is inspected to ensure that it is free of debris that could potentially fall into the well. A clean plastic trash bag or a piece of visqueen plastic sheeting is placed adjacent to the well to stage sampling equipment and supplies. Indications of well or well box damage are noted on appropriate field forms.

Prior to sampling, the construction details of each groundwater monitoring well to be sampled are reviewed to establish their respective depths and the length and placement of their screened intervals.

When the well is opened, the Technician will immediately measure the concentration of volatile organic vapors in the upper portion of the well casing with a photo-ionization detector (PID) calibrated to hexane. This measurement will guide the selection of respiratory protection equipment for sampling (as dictated by Montrose's Health and Safety Plan) at that particular well. Historical air monitoring data should also be referred to when selecting appropriate respiratory protection.

Prior to purging or sampling, initial static water levels are measured and recorded for all site wells. Depth to groundwater measurements accurate to 0.01 feet are obtained with an electronic sounding instrument that can also distinguish between liquid phase hydrocarbon (LPH) and water. The depths to LPH (if present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present). These measurements and the approximate thickness of potential LPH are recorded on the Fluid Level Measurement Form. Field forms are included in the Groundwater Monitoring Report as an Appendix.

As the measuring device is removed, it is thoroughly washed with a Liqui-nox/ water mixture and rinsed with distilled water. The tape is wiped dry with a paper towel as it is re-wound.

Note, wells that are found to contain LPH are not purged or sampled.

Traditional Well Purging

If purging is required, depth to groundwater measurements and well construction details are used to calculate the volume of water within each well casing.

During purging, the water quality parameters consisting of temperature, pH, conductivity, and turbidity are monitored as each well volume is removed. In some cases, additional water quality parameters, such as dissolved oxygen (DO) and oxidation-reduction potential (ORP), are also measured during purging. Purging continues until these parameters vary less than 10 percent from the previous reading, three well volumes are removed, or 80 percent of the well volume has been removed with no significant well recharge. Groundwater samples are collected without additional purging if the volume of groundwater in a well does not recover to at least 80 percent of its initial pre-purge measurement within two hours.

Depth to groundwater measurements, purge volumes, and water quality parameters obtained as each well is purged are recorded on Groundwater Monitoring Field Forms.

Instruments used for groundwater parameter measurements are calibrated daily in accordance with the manufacturer's instructions.

Purge water is generally collected in labeled 55-gallon, DOT-approved drums for disposal. Drums may be left on site in a secure location for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water is collected directly from the site by a licensed vacuum truck company, or treated on site by an active remediation system.

Low Flow, Minimal Drawdown Sampling

For non-LNAPL (floating product) sites: This procedure is designed to assist the user in taking representative groundwater samples from groundwater monitoring wells. The groundwater samples will be collected using low-flow (minimal drawdown) purging and sampling methods and is based upon U.S. EPA, Ground Water Issue, Publication #EPA/540/S-95/504, April 1996.

The field sampler's objective is to purge and sample the well so that the water that is discharged from the pump, and subsequently collected, is representative of the formation water from the aquifer's identified zone of interest.

1. Calibrate all field instruments at the start of each day's deployment per the instrument manufacturer's instruction. Record calibration data on the appropriate field calibration documentation form.

2. Begin sampling at the least contaminated and preferably upgradient well(s). Make notes describing the well condition, personnel, weather, location, etc.

3. Use only new, dedicated and/or clean (phosphate-free detergent, rinse and triple rinsed) equipment and sampling supplies. The water level meter, low-flow pump, discharge tubing and/or bailer will either be new or decontaminated before well gauging and sampling. Note - anything placed into a monitoring well must be CLEANED and DECONTAMINATED beforehand.

4. Measure the depth to water from the surveyed reference mark on the wellhead and record the measurement on the gauging and sampling sheet. Lock the water level meter in place so that the level can be monitored during purging and sampling. When placing the probe in the well, take precautions to not disturb or agitate the water. Where compounds of interest are known to concentrate near the top or the bottom the screen zone, locate the pump intake or end of tubing in the upper one-third or lower one-third of the interval, respectively.

5. Connect the compressed air source's airline to the pump controller's "AIR IN" connection (if utilizing a gas-engine operated generator, locate the generator at least 25 feet downwind from the wellhead). If using a peristaltic pump located at the surface, connect the flexible tubing to the pump drive head.

6. Connect the pump controller "AIR OUT" air-line to the bladder pump's air supply fitting at the wellhead (if using an electric pump, connect to generator's electric panel). If using a peristaltic pump, connect downhole tubing to flexible tubing in pump drive head.

7. Connect the pump discharge line to the in-line flow cell's "IN" fitting. If electric, same as above. If using a peristaltic pump, connect the discharge tubing to the "IN" fitting of the flow cell.

8. Connect the flow cell's "OUT" line and secure to drain the purge water into the purge water collection container.

9. Turn on or start the air supply to the pump. Set the pump controller settings to the documented settings for the specific well. Confirm the flow rate is equal to the well's established optimum flow rate, not to exceed 1 liter (1,000 ml) per minute. Modify as necessary and document any required modification. If electric, document MHz pump frequency for optimum flow rate.

10. Monitor the water level and confirm that the water level drawdown has stabilized within the well's allowable limits. Minimal drawdown is to be achieved which is less than 1/3-foot.

11. After a single pump-system's volume (bladder volume + discharge tubing volume, or for peristaltic pump downhole tubing volume + flexible tubing volume) has been adequately purged, read and record water quality field measurements every three to five minutes until all parameters have stabilized within their allowable ranges for at least three consecutive measurements. When stabilization has been achieved, sample collection may begin.

12. Disconnect the flow cell and its tubing from the pump line before collecting samples. Decrease the pump (MHz) rate to 100 millimeters per minute or less by lowering the controller's air pressure setting or MHz pump frequency prior to collecting samples for volatiles. If using a peristaltic pump, cut the discharge tubing between the pump head drive and the "IN" fitting on the flow cell. Place the samples in a cooler with enough ice to keep them at four degrees Celsius.

13. Once samples for volatiles have been collected, re-established pump flow rate to the original purge flow rate by inputting the documented controller settings for the well without the In-Line Flow Cell connected and collect remaining samples.

14. When all sample containers have been filled, make a final measurement of the well's Static Water Level and record the measurement on the gauging and sampling sheet.

15. Measure and record total purge volume collected. Consolidate generated purge water.

16. Remove and decontaminate the In-Line Flow Cell with phosphate-free detergent and triple rinse. If using a peristaltic pump, disconnect flexible tubing portion from the pump drive head. If dedicating the downhole tubing to the well, place tubing in the well in such a way that it will be easily retrievable during the next sampling event.

17. Disconnect the controller air supply to the pump. Disconnect electric cables to generator.

18. Secure the wellhead cover and secure with its lock. Move equipment to next well to be sampled.

Groundwater Sampling

After wells are purged, or not purged, according to agency-approved instructions or guidelines, groundwater samples are collected for laboratory analysis.

Groundwater samples will be collected from each well directly from the discharge tubing, of which the intake end is located within the screened interval. Groundwater samples should NOT be passed through the low-flow cell, or through any groundwater quality measuring device prior to collection. Groundwater brought to the surface is conveyed into appropriate laboratory prepared containers for each required analysis.

After filling, sample containers are immediately capped. Particular care is given to containers for volatile organic analysis (VOAs), which require filling to zero headspace and fitting with Teflon-sealed caps.

Each sample container is labeled with the project number (or site ID), well designation, sample date, and the samplers initials, and then immediately sealed in a zip lock bag and placed in a pre-chilled, insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container description and requested analyses are entered onto a chain-of-custody form to provide instruction for the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the point of collection to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form along with the package tracking number.

For wells that are connected to a treatment system, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging, and Sampling

The sequence in which monitoring activities are conducted is determined on a site-specific basis. In general, wells are gauged beginning with the least-affected well and ending with the well that has the highest contaminant concentration based on previous analytical results. After gauging is completed, wells are purged and/or sampled in the order of least-affected to most-affected wells.

Field QA/QC Procedures

A trip blank field sample is used to ensure that sample collection and handling procedures do not introduce contaminants into the groundwater samples. The trip blank is prepared by filling sample containers in the field with de-ionized water. The sample containers are labeled as “Trip Blank,” placed in the cooler with other groundwater samples, and transported to the laboratory for analysis.

Silica Gel Cleanup of Groundwater Samples

Unless clearly specified by the project manager and subsequently noted on the chain-of-custody, groundwater samples that are to be analyzed for diesel and heavy oil using Methods NWTPH-Dx/Ox will not be ‘cleaned-up’ using silica gel or any other agents.

If samples that are to be analyzed for TPH-Dx/Ox are subjected to silica gel cleanup

procedures, that fact will be noted on the chain-of-custody, the analytical report and in the groundwater monitoring report.

Decontamination

To reduce the potential for cross-contamination between wells, strict isolation and decontamination procedures are observed.

Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that may come in contact with fluids is either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of a four-stage decontamination process: a phosphate-free detergent (Liqui-nox) wash, a double potable-water rinse, and a final deionized water rinse.

Exceptions

Additional tasks or non-standard procedures that may be requested or required for a particular site are documented on the appropriate field notes/forms.

APPENDIX F

Waste Manifest

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: VSQG
2. Page 1 of: 1
3. Emergency Response Phone: 888-785-7225
4. Manifest Tracking Number: 018963290 FLE

GENERATOR

5. Generator's Name and Mailing Address: United Pacific, c/o Montrose Environmental
1631 E. Saint Andrew Place
Santa Ana, CA 92705
Generator's Phone: 360-305-9942

Generator's Site Address (if different than mailing address): United Pacific
5720 Main St
Springfield, OR 97578

6. Transporter 1 Company Name: Advanced Chemical Transport Inc./DBA ACTenviro
U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors Site B
20400 Lemley Rd
Grandview, ID 83624
Facility's Phone: 208-834-2275
U.S. EPA ID Number: IDD073114654

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Hazardous, liquid, n.o.s. (GROUNDWATER, BENZENE), 9, PGIII	1	DM	300	P	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) ERG#171: 54727.0 UNU 1339 Project Number 510655 Document #: D626585

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 5 | Day 13 | Year 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month 5 | Day 13 | Year 24

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kristine Ellsbrecht | Signature | Month 5 | Day 13 | Year 24