

Additional Site Assessment Report

**United Pacific #5468
5720 Main Street
Springfield, Oregon
DEQ Tanks File No.: 20-20-0844**

Prepared for

**Oregon Department of Environmental Quality
WR Environmental Cleanup Program
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1.0 INTRODUCTION

Montrose Environmental (Montrose), on behalf of United Pacific (UP), has prepared this *Additional Site Assessment Report* (Report) for UP #5468 located at 5720 Main Street in Springfield, Oregon (Site). A site location map is presented as **Figure 1**. Based on discussion with the Oregon Department of Environmental Quality (DEQ), one additional offsite monitoring well (MW-13) and two soil vapor probes (SV-1 and SV-2) were installed to further investigate impacts northwest of the Site, and one onsite monitoring well (MW-12) that was precleared during prior assessment activities was installed to define the plume to the east (**Figure 2**). A formal workplan was not submitted, however, the activities were conducted in general accordance with prior workplans submitted for the Site and with the approval of the DEQ prior to implementation.

Laboratory analytical results indicate that petroleum constituents were not detected in the soil samples analyzed from Wells MW-12 and MW-13 but were detected in the groundwater sample collected from Well MW-13, with some constituents exceeding DEQ's Risk-Based Concentrations (RBCs) for injection and inhalation from tapwater for the occupational receptor scenario. Soil vapor concentrations from both probes were below the DEQ's Vapor Intrusion RBCs for vapor intrusion into buildings for the occupational receptor scenario.

A summary of the site background, field activities, analytical results, a discussion of the findings, and recommendations are presented in the following sections.

2.0 BACKGROUND

2.1 Site Description

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, in Springfield Oregon. The Site is located at the southern end of a large shopping complex. 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 stored and dispensed at the Site.

Two underground storage tanks (USTs) are located on the Site; 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. An area plan depicting the Site and surrounding area is presented as **Figure 2** and the current site configuration in greater detail is shown in **Figure 3**.



2.2 Site Background and Environmental History

A summary of the environmental site history can be found in the *No Further Action Determination* (NFA) letter, dated August 2, 2012, from the Oregon's Department of Environmental Quality (DEQ). A brief summary of the environmental history follows below.

2.2.1 Historical Release

A petroleum release at the Site was reported to DEQ in 1989. Various groundwater monitoring and remediation wells were installed and a remediation system was operated at the Site. A second fuel release was reported in 1997. The remediation system apparently 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.

2.2.2 Current Release

In late 2020, a UST containing gasoline failed resulting in the release of petroleum to the subsurface. The DEQ was notified of the release and the DEQ assigned the following leaking underground storage tank (LUST) number to the Site: 20-20-0844. The UST suspected of failing was subsequently taken offline and emptied. Over the next several weeks, plans were made to conduct site assessment activities in an effort to determine the extent of subsurface contamination.

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. Soil analytical results from the November 2020 site assessment are presented in **Table 1** and **Table 2**.

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. LPH recovery data is presented in **Table 3**. Well construction details are summarized in **Table 4**.



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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 contaminants of concern (COCs) at concentrations exceeding DEQ Risk-Based Concentrations (RBCs) for the leaching to groundwater scenario. Following well installation, quarterly groundwater monitoring was initiated at the Site. Quarterly groundwater monitoring is currently ongoing. Complete details were reported in the *Additional Site Assessment, Well Installation, Vapor Intrusion, and Groundwater Monitoring Report*, dated June 7, 2021. Soil analytical results from the 2021 site assessment are presented in **Table 1** and **Table 2**. Groundwater monitoring data is summarized in **Tables 7, 8 and 9**, and historical groundwater flow direction and gradient data is presented in **Table 10**.

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, indoor air, and ambient outdoor 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. Three single-walled, fiberglass reinforced UST were removed from the Site and approximately 660 tons of petroleum contaminated soil (PCS) was over-excavated from the UST pit and exported to Coffin Butte Landfill, in Corvallis, Oregon.



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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. 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 DEQ RBC cleanup levels (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 which included the installation of four groundwater monitoring wells (MW-8 through MW-11) to further delineate hydrocarbon impacts beneath the Site. A fifth well was planned but was ultimately not installed due to time constraints but the borehole was pre-cleared for future installation (MW-12). 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.

2.3 Site Geology and Hydrogeology

The Preliminary Geologic Map of the Springfield 7.5' Quadrangle, Lane County, Oregon (Open-File Report O-06-07) was reviewed in preparation of this report. Sediments beneath the Site are mapped as braided-fan alluvium deposits of Quaternary age, abbreviated as the unit *Qf*. "Braided fan sediments range from silt to boulder gravel, but are mostly sandy pebble-cobble gravel" (Hladky and McCaslin, 2006). *Qf* thickness can be up to several hundred feet in thickness and may contain "embedded lahars and tuffs" (Hladky and McCaslin, 2006).



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Previous work at the Site had identified the shallow soils as recent surface fills underlain by brown inorganic silt and silty sand underlain by dense to very dense well graded gravels and cobbles containing varying amounts of sand and silt. Observations during drilling were consistent with the previous observations and description of unit Qf.

A shallow water table aquifer occurs beneath the Site at depth between seven and 20 feet below ground surface (bgs). Season fluctuations in the groundwater table have been measured and documented during groundwater monitoring events. Groundwater elevation trends beneath the Site are depicted on **Chart 1**. Based on recent data, the annual fluctuation of the shallow water table beneath the Site is approximately three feet or less.

3.0 ADDITIONAL SITE ASSESSMENT

The following sections present a summary of the field activities, observations, and analytical results of soil, groundwater, and soil vapor sampling conducted at the request of the DEQ to further investigate petroleum impacts at the Site. Before commencing field activities, a daily “tailgate” site health and safety meeting was held with Montrose personnel and subcontracted employees. Site personnel were requested to read and acknowledge understanding of the Site health and safety plan (HASP) prior to initiating work. The HASP signature page and signed daily health and safety forms are contained in **Appendix A**.

3.1 Field Activities

Field activities included the drilling and installation of two groundwater monitoring wells (MW-12 and MW-13) and two soil vapor probes (SV-1 and SV-2). A formal workplan was not submitted however fieldwork was performed in general accordance with prior workplans submitted for the Site and with the approval of the DEQ project manager prior to implementation. A description of the field activities, observations and analytical results associated with the fieldwork is presented in the following sections. A soil boring and well installation summary including installation dates and total drilled depths is included as **Table 4**.

3.1.1 Access, Pre-marking, Permitting and Notifications

Before initiating field activities, an access agreement was secured with the western adjacent property owner to authorize access to private property for the site assessment activities. Access authorization was also obtained from representatives of the northern adjacent property owner for the staging of equipment on the property. The DEQ, United Pacific and the adjacent property owners were notified prior to the commencement of the field work.



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Prior to drilling, the proposed boring locations were pre-marked in white spray paint. The state of Oregon's mandatory underground utility locator, One-Call, was notified at least 72 hours before initiating field activities and request to mark and delineate underground utilities servicing the Site (One-Call Ticket No. 24275748, **Appendix B**).

Additionally, a private utility locator was contracted to perform a subsurface utility locating and geophysical survey of the proposed drilling locations. On September 25, 2024, a representative from Montrose met onsite with ULS Service Corp. of Pocatello, Idaho, and performed the survey.

On October 2, 2024, a pre-construction meeting was held with the City of Springfield Public Works inspector to approve the location of the well boring near the City sewer main line.

3.1.2 Drilling and Soil Sampling

On October 2 and 3, 2024, Yellow Jacket Drilling Services, LLC of Phoenix, Arizona (Oregon Well Constructor Certification #1786) was retained to provide drilling, soil sampling, and well and vapor probe installation services. Two borings, identified as MW-12 and MW-13, were advanced to a depth of 21 feet bgs and completed as groundwater monitoring wells. Additionally, two borings, identified as SV-1 and SV-2, were advanced to approximately 5.5 and 5 feet bgs, respectively, and completed as soil vapor probes. The monitoring well and soil vapor probe locations are shown on **Figure 2**.

Wells MW-12 and MW-13 were drilled and installed using a Terra Sonic 150CC sonic drill rig. Prior to drilling, boring locations MW-12 and MW-13 were cleared to a depth of 5 feet bgs using air-knife/vacuum techniques. Note that location MW-12 had been cleared during previous site work and was backfilled with sand and capped with asphalt, therefore the sand backfill was removed with the vacuum rig prior to drilling. Soil vapor probes SV-1 and SV-2 were precleared and installed using a 3-inch diameter hand auger.

Soil cores were recovered over a continuous basis during drilling. Soil was logged in accordance with the Unified Soil Classification System (USCS) by a qualified field geologist. Field screening for VOCs was performed by placing a disaggregated portion of each sample in a sealed container and monitoring the head-space using a handheld photoionization detector (PID). Lithologic descriptions and other pertinent geological data including field screening results were recorded on boring logs included in **Appendix C**.

Soil samples selected for laboratory analysis were collected in accordance with the United States Environmental Protection Agency (EPA) Method 5035 using new, laboratory supplied 40-milliliter glass volatile organic analysis (VOA) vials pre-preserved with methanol. Each 5-gram aliquot was inserted into a separate VOA vial. One 4-ounce unpreserved glass jar of sample material was supplied with each set of VOAs. The vials and



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jars were immediately capped, labeled, and stored on ice in a cooler. All samples were delivered to the analytical laboratory under standard chain-of-custody procedures. Additional details regarding laboratory analyses are presented in Section 3.4, Soil Analytical Results.

Down-hole drilling and sampling equipment was decontaminated between borings using by high-temperature, high-pressure steam cleaning within a dedicated decontamination containment trailer. Tooling was allowed to dry prior to reuse. Decontamination water was contained onsite in a United States Department of Transportation (DOT) approved 55-gallon steel drum.

The following section summarizes the field observations and the subsurface soils encountered during drilling:

- The borings for Wells MW-12 and MW-13 were advanced to a total depth of 21 feet bgs and the wells set at 20 feet bgs with 10 feet of 0.020-inch factory slotted, polyvinyl chloride (PVC) well screen.
- Consistent with previous investigations, soils encountered during the drilling of Wells MW-12 and MW-13 consisted of silty gravel, sandy gravel, and well graded gravel with varying amounts of silt and sand to a depth of 21 feet bgs, the maximum depth explored during this assessment.
- No visual or olfactory evidence of hydrocarbon contamination was observed during drilling. Field PID readings were negligible (≤ 0.1 parts per million by volume, ppmv) for all screened soil samples (**Appendix C**).
- Soils encountered during drilling were generally moist to wet. The depth to groundwater was estimated during drilling to be between 11 and 13 feet bgs. Following installation, each well was allowed to stabilize for approximately 24 hours prior to measuring water levels and beginning well development.

Results for soil samples analyzed during this assessment are summarized in **Tables 5 and 6**. Additional lithologic details are presented on the boring logs included in **Appendix C**.

3.1.3 Monitoring Well Installation

Wells MW-12 and MW-13 were constructed using 4-inch diameter, flush-threaded, schedule-40 PVC well casing with 0.020-inch slotted screen. The wells were constructed within the outer drilling casing and screened from 5 feet bgs to 20 feet bgs. The filter pack for the wells consisted of #10/20 silica sand, which was slowly poured to approximately 1 foot above the screened interval. The annular seal consisted of hydrated sodium bentonite chips, placed above the filter pack followed by concrete to the surface.



Watertight, traffic rated, flush-mount steel well monuments were installed at the surface in concrete for each newly installed well. Each well casing was sealed with a watertight, locking well plug. Well completion details are presented in **Table 4** and well construction diagrams are included on the boring logs included in **Appendix C**.

3.1.4 Vapor Probe Installation

The vapor probes were constructed of ¼-inch Nylaflo tubing with a microporous probe tip placed on the terminal end of the tube. The probe was inserted into the borehole to a depth of 5 feet and a 1 foot thick sand pack was poured around the probe. The remaining annular space was filled with hydrated bentonite to the ground surface to seal off the probe. Each probe was completed with a gas-tight valve and completed at the surface with an eight-inch diameter traffic rated, flush-mount steel well monument set in concrete. Each soil vapor well was then allowed to equilibrate several weeks prior to sampling. Vapor probe construction diagrams included on the boring logs provided in **Appendix C**.

3.1.5 Well Development

On October 3, 2024, Wells MW-12 and MW-13 were developed to remove fines and allow for stabilization of parameters prior to sampling. Development was conducted after allowing the annual seal to set for approximately 24 hours after placement.

During development, each well was surged with a surge block to mobilize fine grained sediments and to improve the hydraulic connection between the formation and well filter pack. Following surging, water was purged from each well using a submersible pump, however limited development was performed due to well dewatering, pump limitations, and time/access constraints. Approximately 25 gallons of groundwater was purged from Well MW-12 and 18 gallons was purged from Well MW-13. Field parameters (pH, temperature, conductivity, DO and ORP) stabilized, however turbidity remained elevated and additional development may be warranted based on future monitoring data. Well development field forms are included in **Appendix D**.

3.1.6 Well Survey

On October 17, 2024, well locations were surveyed by KPFF, Inc. of Eugene, Oregon, a licensed professional land surveyor. The top of casing and ground surface elevation were measured to an accuracy of 0.01 feet. The horizontal datum was based on US State Plane Coordinate system, Oregon South Zone and the vertical datum is based on NAVD88. Casing elevations are presented along with a summary of the well construction details in **Table 4**. A copy of the Monitoring Well Survey Report is included in **Appendix E**.



3.1.7 Groundwater Monitoring and Sampling

On October 29, 2024, Blaine Tech Services, Inc. conducted groundwater monitoring, monthly LPH removal and soil vapor sampling activities at the Site. All site wells were gauged, LPH removal was conducted for select site wells, and groundwater samples were collected from newly installed Wells MW-12 and MW-13 using agency approved low-flow sampling methods. Groundwater samples were stored on ice and delivered to the analytical laboratory under chain-of-custody.

A summary of field measured water quality parameters including dissolved oxygen (DO), oxygen reduction potential (ORP), ferrous iron (Fe+2), temperature, potential Hydrogen level (pH), electrical conductivity, and turbidity, as well as groundwater elevation data is included in **Table 7**.

Depth to water measurements on October 29, 2024, ranged from 10.28 feet below top of well casing (btoc) in Well MW-9 to 12.83 feet btoc in Well MW-1. Groundwater elevations ranged from 498.31 to 500.09 feet above mean sea level (amsl). The calculated groundwater flow direction beneath the Site is toward the north-northwest with a shallow gradient of approximately 0.013 feet per foot (ft/ft). The groundwater gradient is shown on **Figure 5**. Groundwater monitoring field forms are provided in **Appendix G**. Monitoring well sampling protocols are included in **Appendix H**.

3.1.8 Soil Vapor Sampling

On October 29, 2024, Blaine Tech Services, Inc. collected subsurface soil gas samples from vapor probes SV-1 and SV-2, located adjacent to the building on the property to the west of the station (**Figure 2**); a duplicate sample was also collected from vapor probe SV-2 (DUP-1). Soil gas samples were collected in laboratory prepared 1.4-liter certified clean Summa canisters using laboratory supplied and calibrated flow regulators and manifolds.

A vacuum test was conducted prior to sample collection to test for leaks in the sampling train. With the soil vapor probe and canister valves in the closed position, vacuum was applied to the sample train using a pump and vacuum monitored for a least three minutes to test for leaks. If there was any observable loss of vacuum, the sample train fittings and valves were adjusted, and the test repeated until passed.

Following the vacuum test, each vapor probe was purged to remove stagnant air from the sample train. Purge and sample flow rates were limited to between 100 and 200 milliliters per minute (mL/min). During sampling, a helium shroud was deployed over the vapor probes and the atmosphere within the shroud was enriched to a helium concentration of approximately 93 percent. A portable dielectric helium detector was used to record the shroud helium concentration. A portable electric vacuum pump was used to purge the



sampling train. During purging, the helium detector was used to monitor for the presence of helium in the purge stream, which if detected would indicate a potential leak in the sampling train. Once the absence of helium in the purge stream was verified, the summa canisters were opened and allowed to fill. Vapor sampling was stopped once the canister vacuum dropped and approached 5 inches mercury. The duplicate sample, DUP-1, was collected in-line with its respective primary sample (SV-2). Following collection, the samples were delivered to the analytical laboratory under chain-of-custody. Field sampling forms are included in **Appendix G**.

3.1.9 Waste Management

Soil cuttings, decontamination water, and well purge water generated during drilling and well installation activities were placed into DOT-approved 55-gallon steel drums, sealed, labeled. Six (6) total drums were temporarily stored onsite pending characterization and transport. The drums were transported offsite to an appropriate disposal/recycling facility. A copy of the non-hazardous waste manifest is included in **Appendix I**.

LPH and purge water generated during the groundwater sampling and LPH removal event was placed into new DOT-approved 55-gallon drums and stored at the Site for future use. When full, the drums will be removed and disposed of, and a copy of the waste manifest will be provided.

3.2 Soil Analytical Results

The analytical results have been evaluated considering DEQ's *Risk-Based Decision Making for Remediation of Contaminated Sites*, September 22, 2003 (updated September 6, 2017, October 2, 2017 and May 2018). The soil analytical results from this assessment are summarized in **Table 5** and **Table 6** and are compared to the DEQ's RBCs for the contaminants leaching to groundwater for the occupational receptor scenario.

Soil samples were submitted under chain of custody procedures to Apex Laboratories, Inc., an Oregon State accredited environmental laboratory located in Tigard, Oregon (Oregon Environmental Laboratory Accreditation Program #OR100062). Soil analytical results are discussed below.

A total of eight (8) soil samples and one (1) duplicate soil sample were submitted for laboratory analysis. All soil samples were analyzed for total petroleum hydrocarbons quantified as gasoline (TPH-Gx) by NWTPH-Gx and full-scan VOCs by EPA Method 8260. As approved by the DEQ, lead was removed from the sample analysis plan based on historical analytical results which indicated that lead was not detected in soil samples during prior site assessments.

During this assessment, TPH-Gx and VOCs were not detected in any of the soil samples



analyzed at or above the laboratory method RLs.

The current soil analytical results are summarized in **Table 5** and **Table 6** and are shown along with historical soil analytical results on **Figure 7**. Laboratory analytical reports are included in **Appendix F**.

3.2.1 Quality Assurance/Quality Control Sampling

One duplicate soil sample was collected and analyzed during the drilling and sampling activities (minimum of 10 percent of total number of soil samples). Additionally, a field equipment blank (EB-1) was collected by pouring distilled water over newly decontaminated drilling tools immediately prior to use. The equipment blank sample was collected into new, laboratory prepared, pre-preserved sampling containers. The duplicate and equipment blanks samples were analyzed for TPH-Gx by Northwest Method NWTPH-Gx and full-scan VOCs by EPA Method 8260.

No COCs were detected in the duplicate soil sample, or the equipment blank at concentrations greater than laboratory method RLs.

One trip blank, supplied by the analytical laboratory, was also submitted for analysis of full scan VOCs by EPA Method 8260s. No COCs were detected at concentrations greater than laboratory method RLs. Quality assurance/quality control sample analytical results are included on **Tables 5** and **6**.

3.3 **Groundwater Analytical Results**

Groundwater samples were submitted under chain of custody procedures to Libby Environmental, Inc., located in Olympia, Washington (EPA Laboratory Identification #WA01190). Groundwater samples were analyzed for TPH-Gx by NWTPH-Gx and full-scan VOCs by EPA Method 8260. Groundwater analytical results are summarized in **Table 7**, **Table 8**, and **Table 9**, and are compared to the DEQ RBC CULs for the Ingestion and Inhalation from Tapwater for the occupational receptor scenario. Select analytical results are also depicted on **Figure 4**. The laboratory analytical report is presented in **Appendix F**.

As shown in **Table 7**, TPH-Gx and VOCs were not detected in the groundwater sample collected from Well MW-12 at concentrations greater than the laboratory reporting limits (RLs).

Well MW-13 contained TPH-Gx at a concentration of 9,400 micrograms per Liter ($\mu\text{g/L}$), which exceeds the DEQ Ingestion and Inhalation from Tapwater RBC of 450 $\mu\text{g/L}$.



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Benzene (630 µg/L), toluene (2,800 µg/L), ethylbenzene (230 µg/L), total xylenes (1,600 µg/L) and naphthalene (34 µg/L) were also detected in the groundwater sample collected from Well MW-13. The detected concentrations of benzene, ethylbenzene, total xylenes and naphthalene exceed the DEQ Ingestion and Inhalation from Tapwater RBCs of 2.1 µg/L, 6.4 µg/L, 830 µg/L and 0.72 µg/L, respectively.

Methyl tert butyl ether (MTBE), 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC) were not detected in the groundwater sample collected from Well MW-13 at concentrations greater than laboratory RLs. It should be noted that the RLs for naphthalene and EDC exceeded the respective RBCs of 0.72 µg/L and 0.78 µg/L.

Various other VOCs were detected in the groundwater sample collected from Well MW-13 and included isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, tert-butylbenzene, n-butylbenzene, styrene, 2-Chlorotoluene and 4-Chlorotoluene. Of the additional VOCs detected, none of the concentrations exceed their respective RBCs (**Table 9**) o

r do not have established RBCs. Complete analytical results for the VOCs analyzed are included in the laboratory analytical report (**Appendix F**).

3.3.1 Quality Assurance/Quality Control Sampling

One duplicate groundwater sample was collected and analyzed during the groundwater sampling activities (minimum of 10 percent of total number of soil samples). Additionally, a field equipment blank (EB-1) was collected by pouring distilled water over newly decontaminated sampling tools immediately prior to use and directly into new, laboratory prepared sampling containers. The duplicate and equipment blanks samples were analyzed for TPH-Gx by Northwest Method NWTPH-Gx and full-scan VOCs by EPA Method 8260.

No COCs were detected in the duplicate sample, or the equipment blank at concentrations greater than laboratory method RLs.

One trip blank, supplied by the analytical laboratory, was also submitted for analysis of full scan VOCs by EPA Method 8260s. No COCs were detected at concentrations greater than laboratory method RL in the trip blank sample (TB-1). Quality assurance/quality control sample analytical results are included on **Tables 8** and **9**.

3.4 **Soil Vapor Analytical Results**

Soil vapor samples were submitted to Fremont Analytical, Inc., located in Seattle, Washington, under standard chain of custody protocols. Each sample was analyzed for gasoline range organics and full scan VOCs by EPA Method TO-15, and for major gases, including oxygen, carbon dioxide, and methane by EPA Method C, and helium by GC/TCD (gas chromatography/thermal conductivity detector). Soil vapor analytical results are



summarized in **Table 11** and are compared to the DEQ's RBCs for soil vapor volatilization into indoor air for the occupational receptor scenario. The laboratory analytical report is presented in **Appendix F**.

As shown in **Table 11**, concentrations of several VOCs were detected in each of the soil vapor samples.

Benzene was detected in all three soil vapor samples and the at concentrations ranging from 0.825 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 1.12 $\mu\text{g}/\text{m}^3$. The DEQ RBC for soil vapor volatilization into indoor air for benzene is 52 $\mu\text{g}/\text{m}^3$.

Toluene was detected in all samples at concentrations ranging from 11.9 $\mu\text{g}/\text{m}^3$ to 13.5 $\mu\text{g}/\text{m}^3$. The DEQ RBC for spagoil vapor volatilization into indoor for toluene is 73,000 $\mu\text{g}/\text{m}^3$.

Naphthalene was detected in each of the samples at concentrations ranging from 0.387 $\mu\text{g}/\text{m}^3$ to 0.611 $\mu\text{g}/\text{m}^3$. The DEQ RBC for soil vapor volatilization into indoor air is 12 $\mu\text{g}/\text{m}^3$.

Several other VOCs, including 2-butanone, acetone, carbon disulfide, CFC-11, CFC-12, chloromethane, isopropyl alcohol, and methylene chloride, were detected in the soil vapor samples, however the concentrations either do not exceed their respective RBCs or do not have established thresholds.

The tracer gas helium was not detected in any of the vapor samples.

Oxygen was detected in the soil vapor samples at concentrations ranging from 23.7 % volume (SV-2 DUP-1) to 24.5 % volume (SV-1). Generally, oxygen concentrations in soil vapor above 4 % volume indicate sufficient oxygen for biodegradation (suggesting a bioattenuation zone is present). The measured concentrations are considered high and suggest near surface soil is well aerated and conducive for natural biodegradation of residual petroleum hydrocarbon vapors.

Carbon dioxide was detected in the soil vapor samples at concentrations ranging from 1.54 % (SV-1) to 2.69 % (SV-2). Nitrogen was detected in the soil vapor samples at concentrations ranging from 73.5 % (SV-2) to 73.9 % (SV-1). Methane and carbon monoxide were not detected in any of the soil vapor samples (<0.0750 %).

3.5 Hydrocarbon and Groundwater Distribution Analysis

A summary of current and historical groundwater sample analytical results is provided in **Tables 7** and **8**, respectively. Groundwater elevation trends are shown on **Chart 1** and TPH-Gx and benzene concentration trends are shown in **Charts 2** and **3**, respectively.

Since September 24, 2024 (previous monitoring event), the average groundwater elevation beneath the Site has increased approximately 0.39 feet. **Chart 1** shows a groundwater



elevation low occurring between July and September 2024; a similar low in groundwater elevations occurred around the same time in 2023, 2022 and 2021. The annual fluctuation in groundwater elevation is well documented since late 2020, the beginning of the current data set.

Measurable LPH and hydrocarbon sheen was not present in site wells on October 29, 2024, but LPH and LPH sheen was present in three wells, MW-5, MW-6 and EW-1R during the previous monitoring event on September 24, 2024 (**Table 3 and Table 8**). The distribution of LPH is generally centered around the USTs (confirmed source, historically) and LPH thicknesses exhibit a fluctuating but generally decreasing trend over the period of record (**Chart 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, BTEX and MTBE concentrations from the sampling of newly installed Wells MW-12 and MW-13 are shown along with results from the previous monitoring event (September 24, 2024) in **Figure 4** to illustrate the distribution of dissolved-phase hydrocarbons. As shown in **Figure 4**, LPH sheen was present in Wells MW-5, MW-6, and EW-1R located downgradient of the UST cavity; the highest TPH-Gx and benzene concentrations were detected in Wells MW-2, EW-2R and EW-4, located south of the USTs. TPH-Gx and benzene concentrations were also detected in Well MW-13, located downgradient of the USTs, but were not detected in Well MW-12, located to the east of the dispensers. The extent of the groundwater plume appears to be adequately defined to the west, north, east, and south by perimeter wells that contain either low or non-detectable COC concentrations.

4.0 SUMMARY AND CONCLUSIONS

On October 2 and 3, 2024, Montrose oversaw the installation of two groundwater monitoring wells, identified as Wells MW-12 and MW-13, and two vapor probes, identified as SV-1 and SV-2, to further evaluate petroleum impacts at the Site. Well MW-12 was installed to the east of the dispensers at the eastern edge of the subject property. Well MW-13 was installed near the sewer main line and vapor probes SV-1 and SV-2 were installed near the northeast and southeast corners, respectively, of the western adjacent property, located at 5690 Main Street, Springfield, Oregon.

Soil samples analyzed from borings MW-12 (eastern edge of the subject property) and MW-13 (western adjacent property) did not contain detectable concentrations of petroleum constituents. Based on results from previous work and borings MW-12 and MW-13, hydrocarbons impacts to soil appear to be localized to the gas station property and the driveway to the west of the Site and have been adequately defined (**Figure 7**).

Groundwater samples were collected from newly installed Wells MW-12 and MW-13 on



Additional Site Assessment Report

October 29, 2024. Dissolved-phase petroleum constituents were not detected in Well MW-12 but were detected in Well MW-13 with several constituents exceeding the DEQ's RBCs. The extent of the groundwater plume appears to be adequately defined to the west, north, east, and south by perimeter wells that contain either low or non-detectible COC concentrations (**Figure 4**).

Soil vapor probes SV-1 and SV-2 were sampled on October 29, 2024 to evaluate the vapor intrusion pathway for the building on the western adjacent property. No VOC concentrations exceeded the DEQ's RBCs in the soil vapor analytical results.

Montrose recommends conducting an additional sampling event for the soil vapor probes approximately six months from the initial sampling (April/May 2025) to evaluate potential seasonal variability, along with continuing quarterly groundwater monitoring and monthly LPH removal activities while remedial actions are implemented for the Site. Groundwater monitoring data will be used to confirm the initial sampling results for the newly installed wells and to determine if additional downgradient wells are warranted to monitor the plume.

5.0 CLOSURE

Montrose is pleased to be of service to UP. If there are questions regarding this report, please contact the undersigned at (714) 919-6500.

Respectfully submitted,

MONTROSE ENVIRONMENTAL



Laura Skow, RG
Project Manager



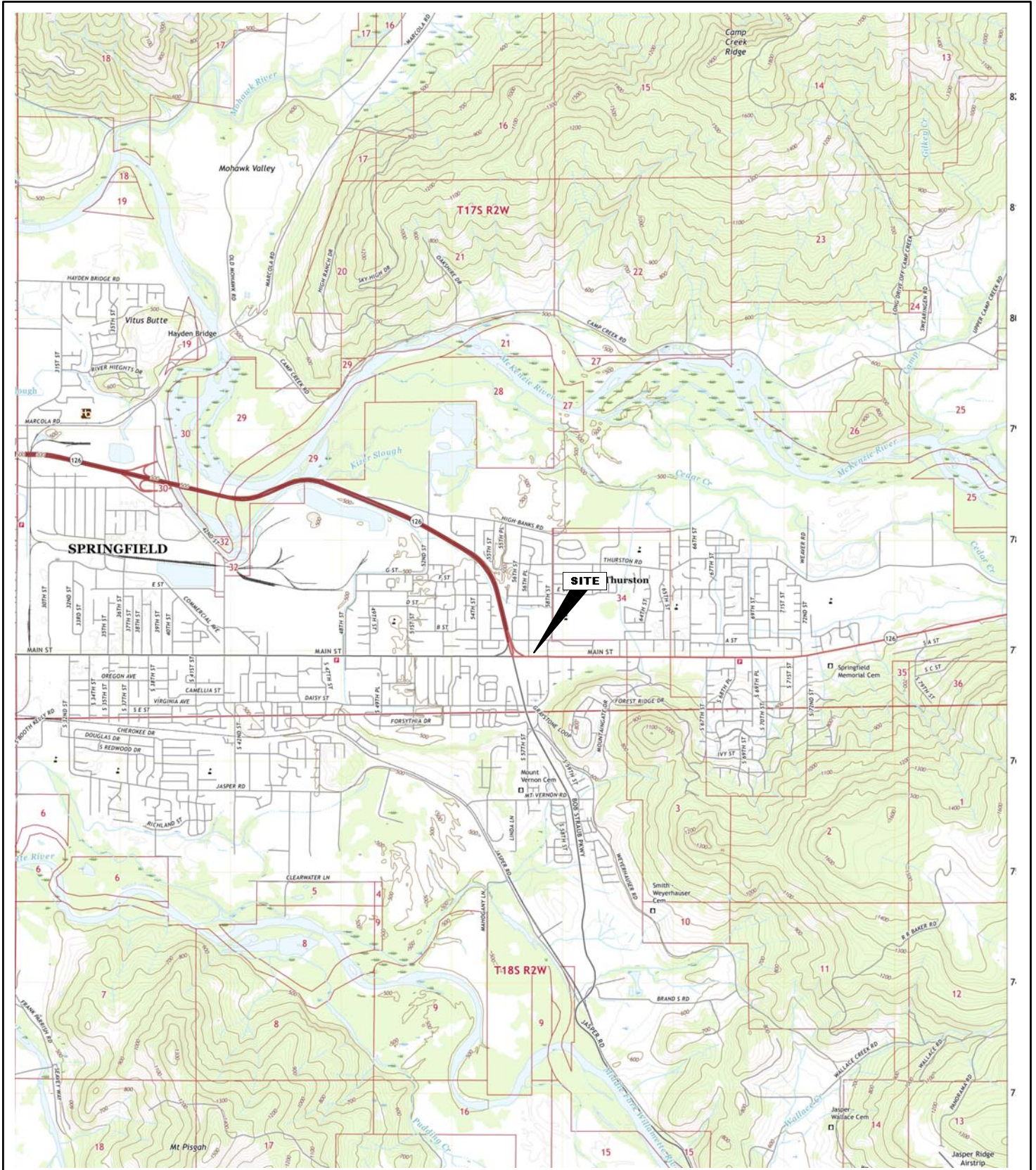
Additional Site Assessment Report

6.0 REFERENCES

- Hladky, F.R. and McCaslin, G.R., 2006, *Preliminary Geologic Map of the Springfield 7.5' Quadrangle, Lane County, Oregon*, Open File Report O-06-07. Oregon Department of Geology and Mineral Industries.
- Montrose Environmental, 2023. *Additional Site Assessment and Fourth Quarter 2022 Groundwater Monitoring Report, United Pacific #5468, Springfield, Oregon, DEQ Tanks File No.: 20-20-0844*. March 2.
- Montrose Environmental, 2024. *Third Quarter 2024 Groundwater Monitoring Report, United Pacific #5468, Springfield, Oregon, DEQ Tanks File No.: 20-20-0844*. November 13.
- Oregon Department of Environmental Quality, 2003. *Risk-Based Decision Making for the Remediation of Contaminated Sites*. September 22. Updated September 6, 2017. Updated October 2, 2017.



FIGURES



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

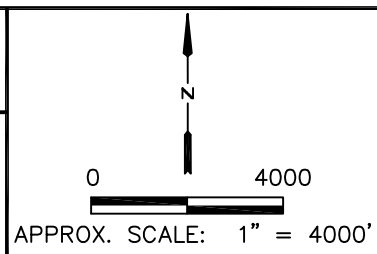


FIGURE 1
 SITE LOCATION MAP

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

DATE DRAWN
 11/10/2022

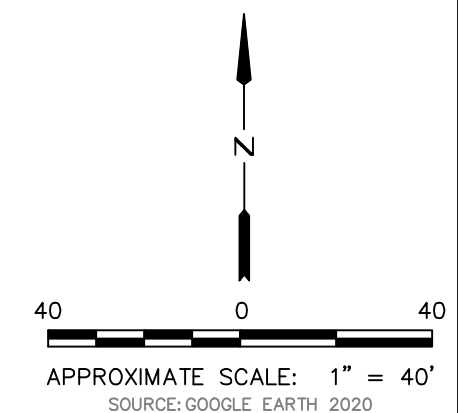
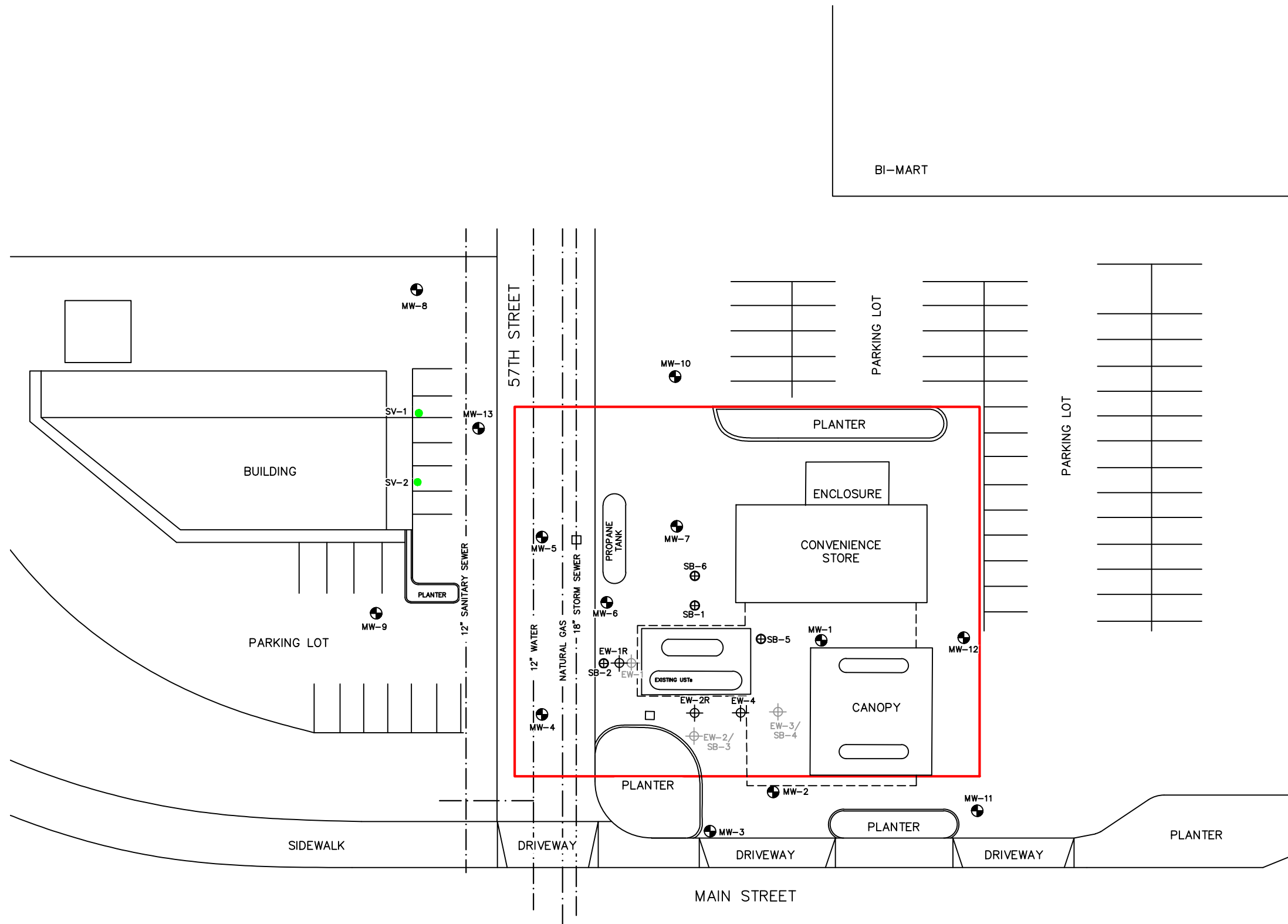
PROJECT NO.
 006811


FILE NO.
 006811F1-SLM

BI-MART

LEGEND

- ⊕ SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ⊕ EXTRACTION WELL LOCATION
- ⊕ DESTROYED EXTRACTION WELL LOCATION
- SOIL VAPOR PROBE LOCATION



 <p>MONTROSE ENVIRONMENTAL 1631 E. Saint Andrew Place, Santa Ana, CA 92705 t 714.919.6500</p>	FIGURE 2	DATE DRAWN 11/27/2024
	AREA PLAN	PROJECT NO. 027409
	United Pacific #5468 5720 Main Street, Springfield, OR 97478	FILE NO. 027409F2-AP

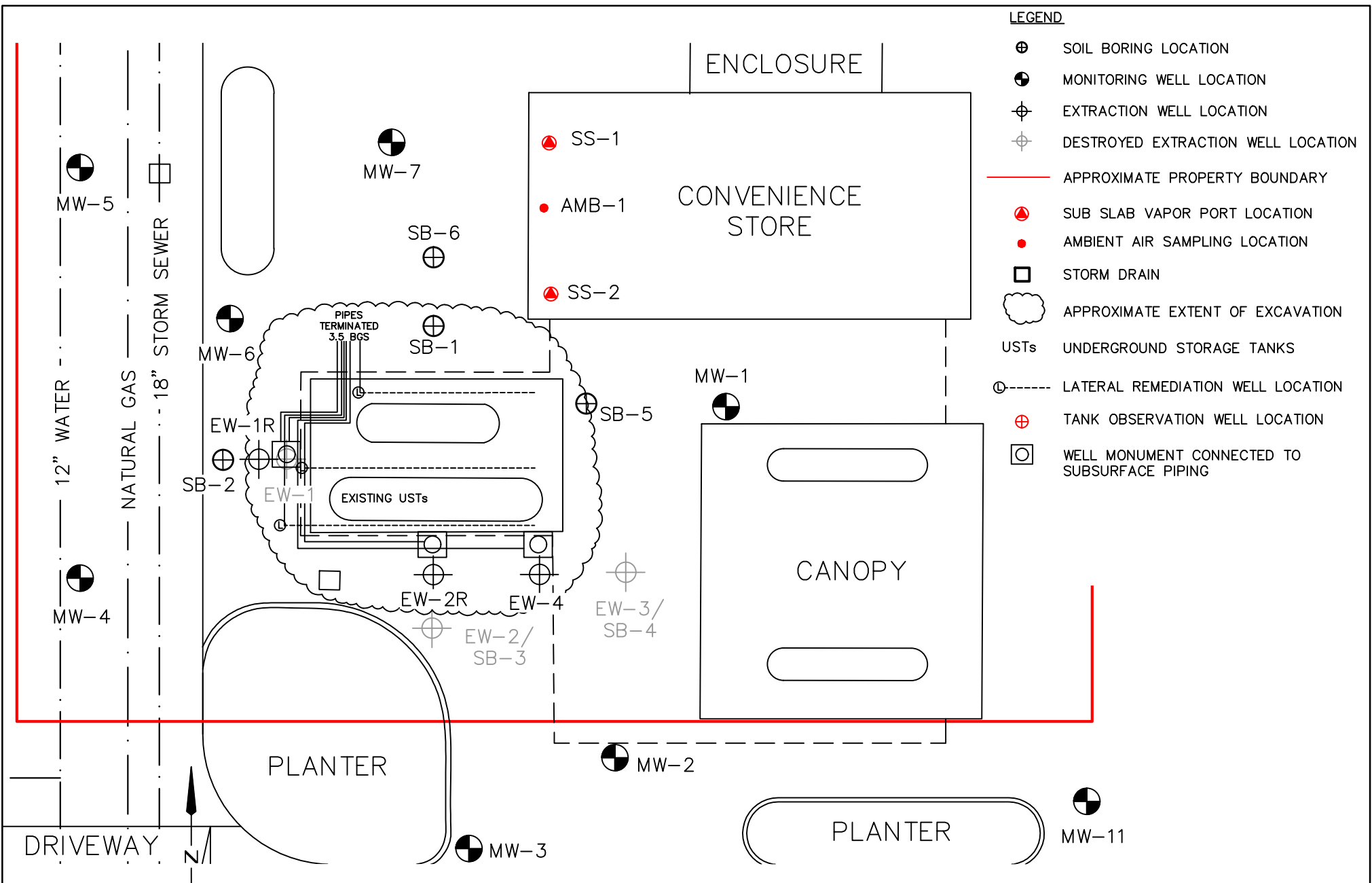


FIGURE 3
SITE PLAN

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

DATE DRAWN 11/27/2024
PROJECT NO. 027409
FILE NO. 027409F3-SP

- LEGEND**
- ⊕ SOIL BORING LOCATION
 - ⊙ MONITORING WELL LOCATION
 - ⊕ EXTRACTION WELL LOCATION
 - ⊕ DESTROYED EXTRACTION WELL LOCATION
 - SOIL VAPOR PROBE LOCATION
 - APPROXIMATE PROPERTY BOUNDARY
 - STORM DRAIN
 - 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)
- NOTE: ANALYTICAL RESULTS IN GRAY WERE COLLECTED ON SEPTEMBER 24, 2024

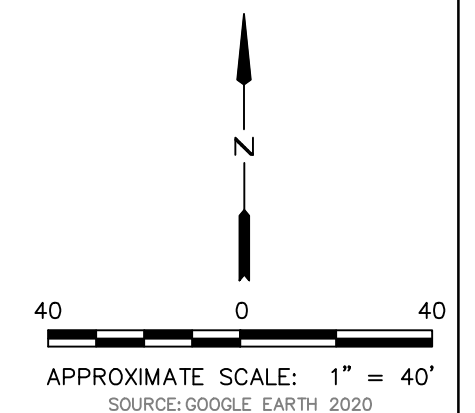
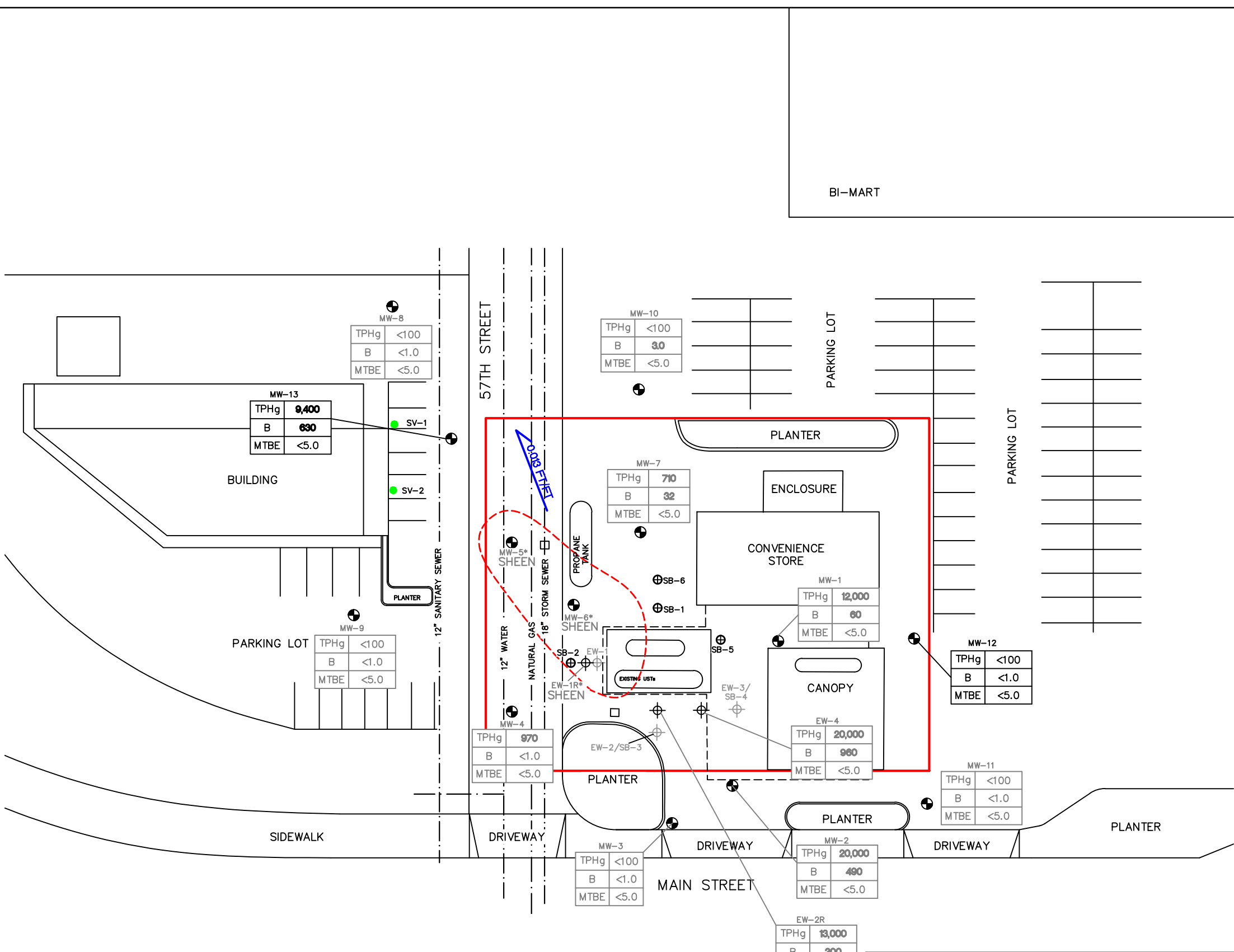


FIGURE 4
GROUNDWATER ANALYTICAL RESULTS
OCTOBER 29, 2024

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

DATE DRAWN 11/27/2024
PROJECT NO. 027409
FILE NO. 027409F4-GAR

BI-MART

LEGEND

- ⊕ SOIL BORING LOCATION
- ⊗ MONITORING WELL LOCATION
- ⊕ EXTRACTION WELL LOCATION
- ⊕ DESTROYED EXTRACTION WELL LOCATION
- SOIL VAPOR PROBE LOCATION
- APPROXIMATE PROPERTY BOUNDARY
- STORM DRAIN
- ↙ 0.03 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

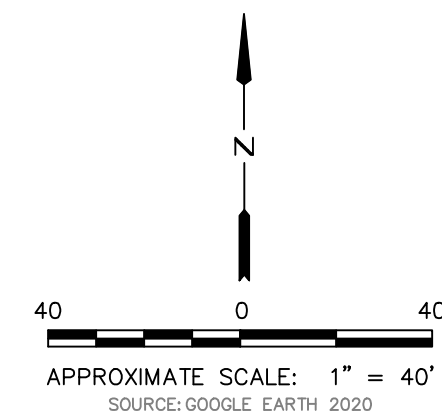
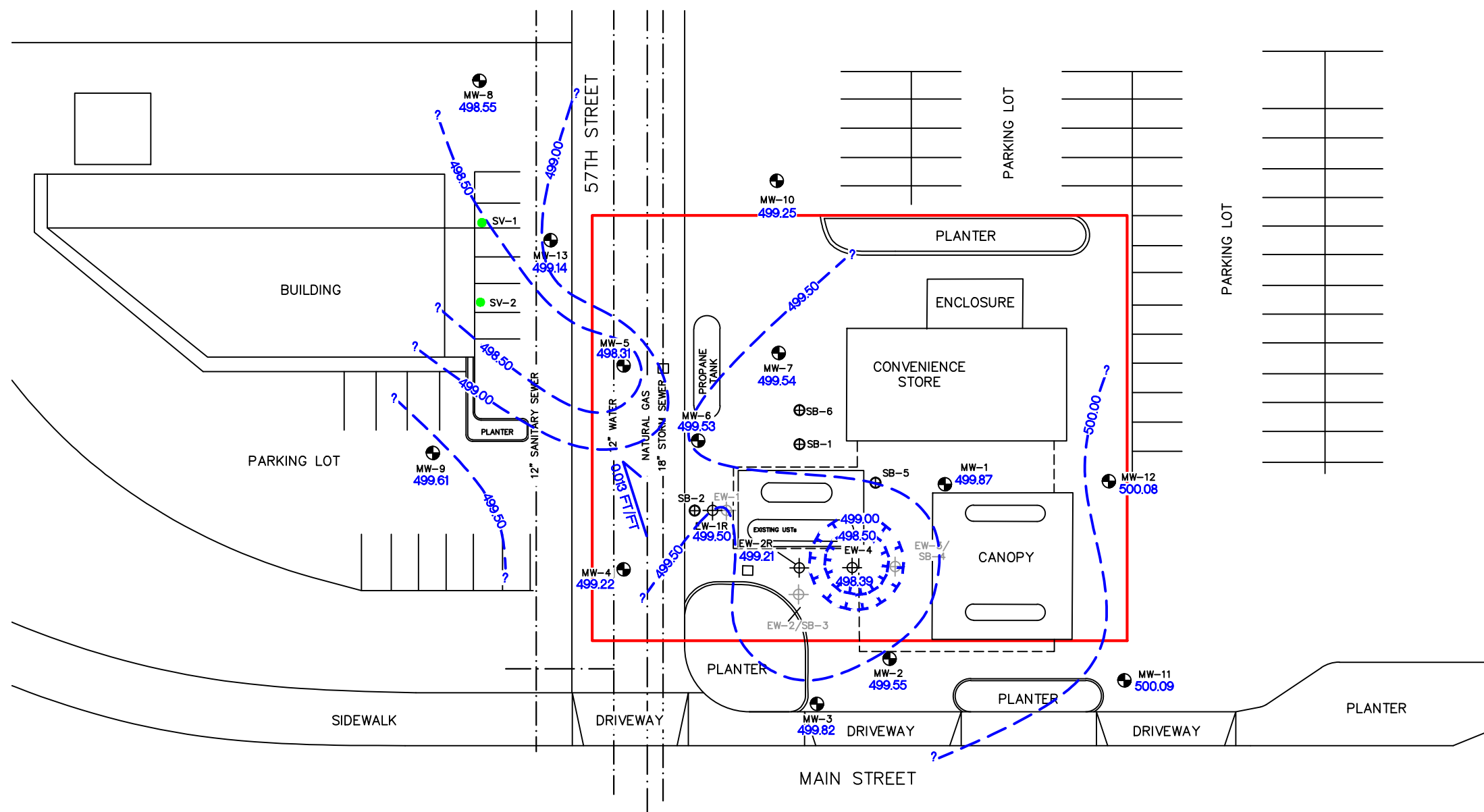


FIGURE 5
GROUNDWATER CONTOUR MAP
OCTOBER 29, 2024

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

DATE DRAWN 11/27/2024
PROJECT NO. 027409
FILE NO. 027409F5-GCM

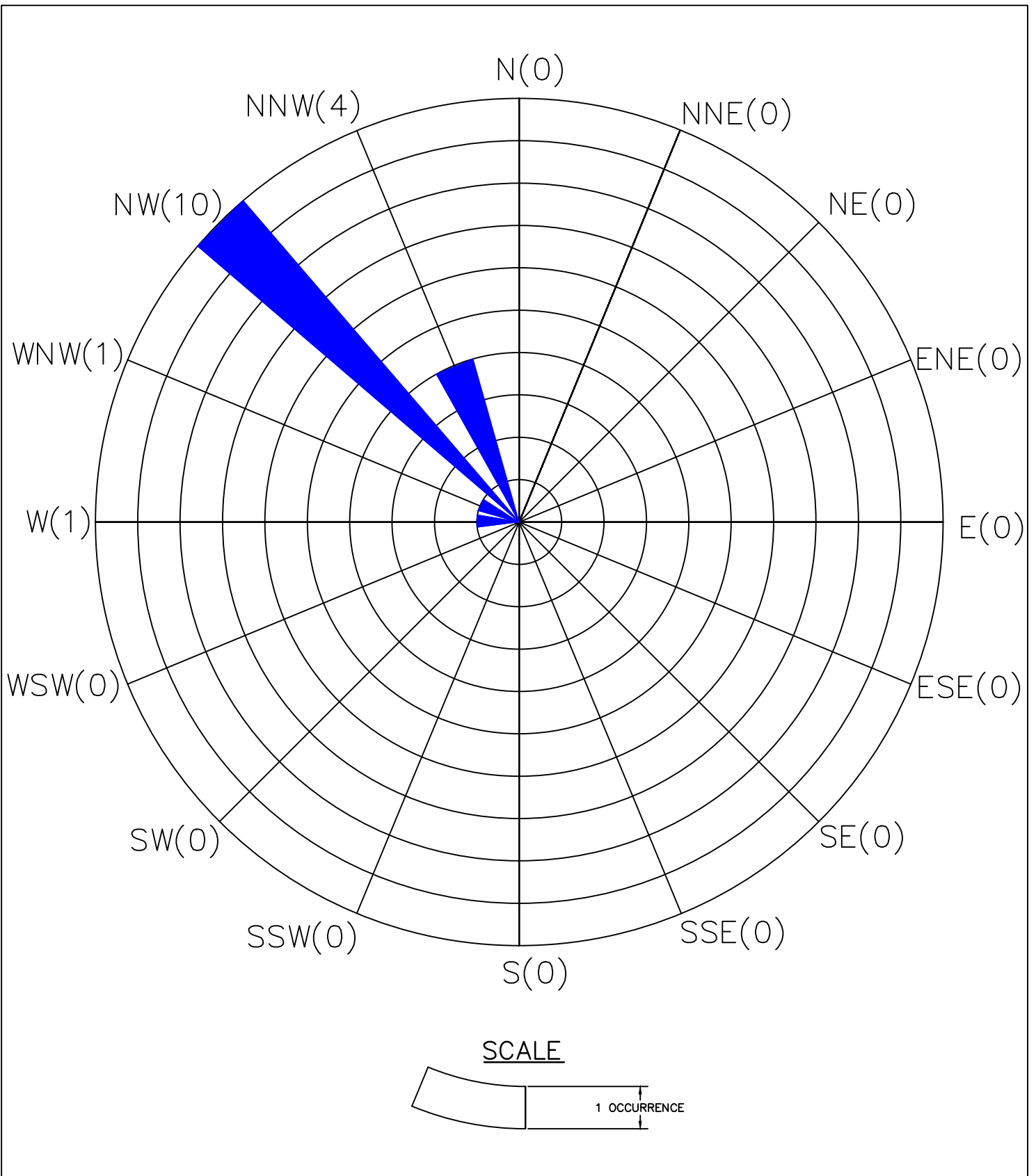


FIGURE 6
**GROUNDWATER FLOW DIRECTION
 ROSE DIAGRAM**

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

DATE DRAWN 11/21/2024
PROJECT NO. 027409
FILE NO. 027409F6-RD

LEGEND

- ⊕ SOIL BORING LOCATION
- ⊗ MONITORING WELL LOCATION
- ⊕ EXTRACTION WELL LOCATION
- ⊕ DESTROYED EXTRACTION WELL LOCATION
- SOIL VAPOR PROBE LOCATION
- APPROXIMATE PROPERTY BOUNDARY
- STORM DRAIN
- USTs UNDERGROUND STORAGE TANKS
- <5.0 COMPOUND NOT DETECTED AT OR ABOVE LABORATORY METHOD REPORTING LIMIT (mg/kg)
- TPHg TOTAL GASOLINE-RANGE PETROLEUM HYDROCARBONS
- BTEX BENZENE, TOLUENE, ETHYLBENZENE & TOTAL XYLENES
- NAPH NAPHTHALENE
- mg/kg MILLIGRAMS PER KILOGRAM
- ALL ALL ANALYZED SAMPLES
- * LCS SPIKE RECOVERY IS OUTSIDE ACCEPTABLE LIMITS. RESULTS MAY BE BIASED LOW
- BOLD** DETECTION EXCEEDS RISK BASED CONCENTRATION (RBC)

TPHg	240	25	MAXIMUM DETECTED CONCENTRATION (mg/kg) AND CORRESPONDING DEPTH IN SOIL (FEET) NOTE: HISTORICAL SOIL ANALYTICAL RESULTS IN GRAY; SEE TABLE 1
B	0.48	25	
T	12	25	
E	5.2	25	
X	26	25	
NAPH	<0.15	30	

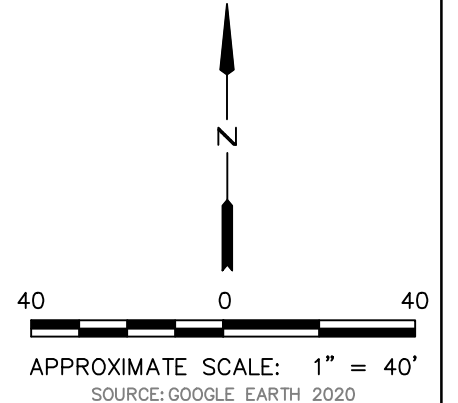
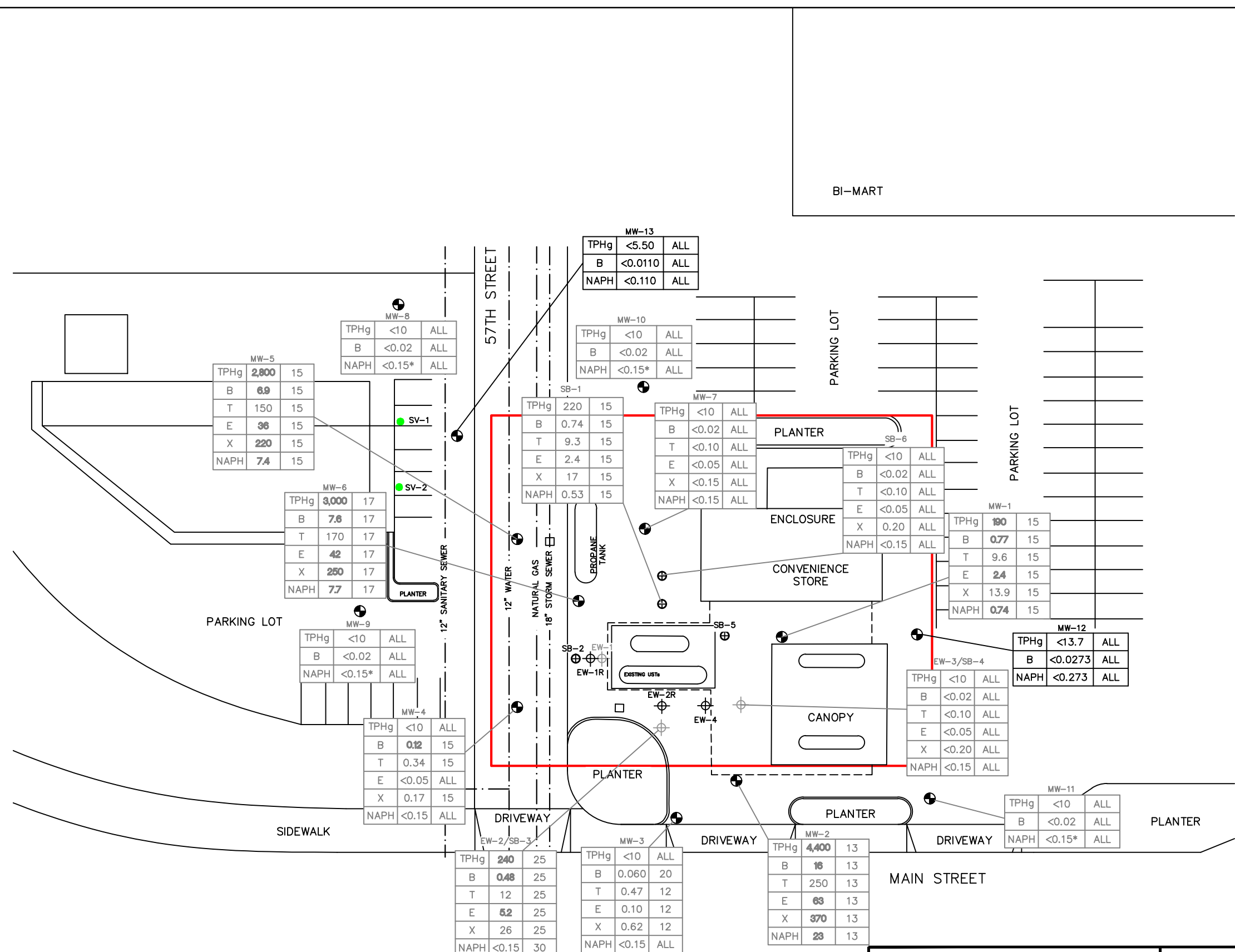


FIGURE 7
SOIL ANALYTICAL RESULTS
OCTOBER 3, 2024

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

DATE DRAWN 11/27/2024
PROJECT NO. 027409
FILE NO. 027409F7-SAR

TABLES

Table 1
Summary of Historical Soil Analytical Results
United Pacific #5468
Springfield, Oregon
Page 1 of 5

Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx (mg/kg)	TPH-Ox (mg/kg)	TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs (mg/kg)	Total Pb (mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										
2020 Site Assessment																	
SB-1	SB-1-5	11/05/20	5	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
	SB-1-10	11/05/20	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	SB-1-15	11/05/20	15	1,751	<50	<250	220	0.74	9.3	2.4	17	<0.05	<0.005	<0.01	0.53	(3)	<5.0
	SB-1-20	11/05/20	20	249	--	--	56	0.33	3.5	0.84	5.3	--	--	--	--	--	--
	SB-1-20 Dup	11/05/20	20	--	--	--	53	0.21	2.0	0.40	2.5	--	--	--	--	--	--
SB-6	SB-6-5	11/05/20	5	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
	SB-6-10	11/05/20	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	SB-6-15	11/05/20	15	0.0	<50	<250	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
	SB-6-20	11/05/20	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
EW-2 (SB-3)	EW-2-25	11/17/20	25	0.0	--	--	240	0.48	12	5.2	26	--	--	--	--	--	--
	EW-2-30	11/17/20	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
EW-3 (SB-4)	EW-3-20	11/17/20	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
	EW-3-25	11/17/20	25	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	EW-3-30	11/17/20	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.01	<0.15	(2)	<5.0
2021 Additional Site Assessment																	
MW-1	MW-1-2.5	03/16/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1-5	03/16/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1-10	03/16/21	10	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1-13	03/16/21	13	11.1	--	--	<10	0.061	0.57	0.077	0.35	<0.05	<0.005	<0.03	0.14	(3)	--
	MW-1-15	03/16/21	15	804.0	--	--	190	0.77	9.6	2.4	13.9	<0.05	<0.005	<0.03	0.74	(3)	<5.0
	MW-1-18	03/16/21	18	30.1	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1-20	03/16/21	20	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-1-25	03/16/21	25	0.0	--	--	<10	0.063	0.56	0.18	0.47	<0.05	<0.005	<0.03	<0.15	(3)	--
MW-1-30	03/16/21	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	<5.0	
MW-2	MW-2-2.5	03/16/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-2-5	03/16/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-2-10	03/16/21	10	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-2-13	03/16/21	13	973	--	--	4,400	16	250	63	370	<0.05	<0.005	<0.03	23	(3)	<5.0
	MW-2-20	03/16/21	20	47.7	--	--	12	0.079	0.76	0.11	0.63	--	--	--	--	--	--
	DUP-1 (MW-2-20)	03/16/21	20	47.7	--	--	11	0.12	1.0	0.094	0.46	--	--	--	--	--	--
	MW-2-25	03/16/21	25	0.4	--	--	14	0.12	1.1	0.14	0.78	<0.05	<0.005	<0.03	0.2	(3)	--
	MW-2-30	03/16/21	30	0.0	--	--	12	0.12	0.97	0.089	0.44	--	--	--	--	--	<5.0



Table 1
Summary of Historical Soil Analytical Results
United Pacific #5468
Springfield, Oregon
Page 2 of 5

Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx (mg/kg)	TPH-Ox (mg/kg)	TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs (mg/kg)	Total Pb (mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										
MW-3	MW-3-2.5	03/15/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-3-5	03/15/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-3-10	03/15/21	10	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-3-12	03/15/21	12	0.0	--	--	<10	0.033	0.47	0.10	0.62	<0.05	<0.005	<0.03	<0.15	(3)	<5.0
	MW-3-15	03/15/21	15	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-3-20	03/15/21	20	0.0	--	--	<10	0.060	0.25	<0.05	<0.15	--	--	--	--	--	--
	MW-3-25	03/15/21	25	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	MW-3-30	03/15/21	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
MW-4	MW-4-2.5	03/18/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-5	03/18/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-10	03/18/21	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	--
	MW-4-13	03/18/21	13	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-14	03/18/21	14	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-15	03/18/21	15	171	--	--	<10	0.12	0.28	<0.05	0.16	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
	DUP-3 (MW-4-15)	03/18/21	15	171	--	--	<10	0.12	0.34	<0.05	0.17	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
	MW-4-16	03/18/21	16	17.8	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-18	03/18/21	18	0.2	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	MW-4-20	03/18/21	20	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-4-25	03/18/21	25	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	MW-4-30	03/18/21	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
MW-5	MW-5-2.5	03/17/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-5	03/17/21	5	0.0	--	--	<10	0.16	0.54	<0.05	<0.15	--	--	--	--	--	--
	MW-5-10	03/17/21	10	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-12	03/17/21	12	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-13	03/17/21	13	47.8	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-15	03/17/21	15	1,286	--	--	2,800	6.9	150	36	220	<0.05	<0.005	<0.03	7.4	(3)	<5.0
	MW-5-19	03/17/21	19	nm	--	--	<10	0.17	0.35	<0.05	<0.15	--	--	--	--	--	--
	MW-5-20	03/17/21	20	10.2	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-25	03/17/21	25	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-5-30	03/17/21	30	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
MW-6	MW-6-2.5	03/17/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-6-5	03/17/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-6-8	03/17/21	8	35.2	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-6-10	03/17/21	10	67.2	--	--	--	--	--	--	--	--	--	--	--	--	--



Table 1
Summary of Historical Soil Analytical Results
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Springfield, Oregon
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx	TPH-Ox	TPH-Gx	B	T	E	X	MTBE	EDB	EDC	Naph	Other VOCs	Total Pb
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										Method 7010
MW-6 cont.	MW-6-14	03/17/21	14	134.5	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-6-17	03/17/21	17	247	--	--	3,000	7.6	170	42	250	<0.05	<0.005	<0.03	7.7	(3)	<5.0
	MW-6-19	03/17/21	19	122	--	--	12	0.88	2.2	0.19	0.90	--	--	--	--	--	--
	DUP-2 (MW-6-19)	03/17/21	19	122	--	--	13	0.83	2.3	0.20	1.0	--	--	--	--	--	--
	MW-6-25	03/17/21	25	13.6	--	--	<10	0.095	0.33	<0.05	<0.15	--	--	--	--	--	--
MW-6-30	03/17/21	30	0.9	--	--	15	0.025	0.15	<0.05	0.22	<0.05	<0.005	<0.03	<0.15	(3)	<5.0	
MW-7	MW-7-2.5	03/17/21	2.5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-7-5	03/17/21	5	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW-7-10	03/17/21	10	12.4	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15	(2)	<5.0
	MW-7-14	03/17/21	14	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	MW-7-20	03/17/21	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	--
	MW-7-25	03/17/21	25	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7-30	03/17/21	30	0.4	--	--	<10	<0.02	<0.10	<0.05	<0.15	--	--	--	--	--	<5.0	
Additional QA/QC Samples (water) [†]					TPH-Dx	TPH-Ox	TPH-Gx	B	T	E	X	MTBE	EDB	EDC	Naph	Other VOCs	Total Pb
					(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
na	RINSE-1	03/16/21	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(2)	<5.0
na	Trip Blank 1	na	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(2)	<5.0
na	Trip Blank 2	na	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(2)	<5.0
2022 Well Installation																	
MW-8	MW-8-10	11/15/22	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-8-15	11/15/22	15	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	<5.0
	MW-8-20	11/15/22	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-8-25	11/15/22	25	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
MW-9	MW-9-10	11/16/22	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-9-15	11/16/22	15	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	<5.0
	MW-9-20	11/16/22	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-9-25	11/16/22	25	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
MW-10	MW-10-10	11/17/22	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-10-15	11/17/22	15	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	<5.0
	MW-10-20	11/17/22	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
MW-11	MW-11-10	11/17/22	10	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
	MW-11-15	11/17/22	15	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	<5.0
	MW-11-20	11/17/22	20	0.0	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--



Table 1
Summary of Historical Soil Analytical Results
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx (mg/kg)	TPH-Ox (mg/kg)	TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs (mg/kg)	Total Pb (mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										
Additional QA/QC Samples (water)[†]					TPH-Dx (µg/L)	TPH-Ox (µg/L)	TPH-Gx (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	EDB (µg/L)	EDC (µg/L)	Naph (µg/L)	Other VOCs	Total Pb (µg/L)
na	EB-1	11/15/22	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(3)	--
na	EB-2	11/16/22	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(3)	--
na	EB-3	11/17/22	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(3)	--
na	Trip Blank	11/17/22	na	na	--	--	<100	<1.0	<1.0	<1.0	<2.0	<5.0	<0.01	<1.0	<5.0	(3)	--
Additional QA/QC Samples (soil)					TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs	Total Pb (mg/kg)
na	Dup-1	11/16/22	25	na	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
na	Dup-2	11/17/22	15	na	--	--	<10	<0.02	<0.10	<0.05	<0.15	<0.05	<0.005	<0.03	<0.15*	(2)	--
RBC: Leaching to groundwater ⁽¹⁾					>MAX	>MAX	130	0.10	490	0.90	100	0.54	0.00056	0.013	0.34	(7)	30
RBC: Vapor Intrusion into Buildings ⁽⁴⁾					na	na	na	na	na	na	na	na	na	na	na	(7)	nv
RBC: Volatilization to Outdoor Air ⁽⁵⁾					>MAX	>MAX	69,000	50	>Csat	160	>Csat	1,500	0.65	15	83	(7)	nv
RBC: Direct Contact ⁽⁶⁾					14,000	36,000	20,000	37	88,000	150	25,000	1,100	0.73	16	23	(7)	800



Table 1
Summary of Historical Soil Analytical Results
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx (mg/kg)	TPH-Ox (mg/kg)	TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs (mg/kg)	Total Pb (mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										

Notes:

BOLD = Result in BOLD exceeds cleanup level for soil for the leaching to groundwater pathway

(1) = ODEQ RBC for Soil Leaching to Groundwater - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)

(2) = No other VOCs detected

(3) = Other VOCs detected. See Table 2 and refer to laboratory analytical reports

(4) = ODEQ RBC for Vapor Intrusion in Buildings - occupational receptor scenario (see OQED Table of RBCs for Individual Chemicals Revision: May 2018, revised August 2023)

(5) = ODEQ RBC for Volatilization to Outdoor Air - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)

(6) = ODEQ RBC for Soil Injection, Dermal Contact, and Inhalation - occupational receptor scenario (see OQED Table of RBCs for Individual Chemicals Revision: May 2018, revised August 2023)

(7) = see ODEQ Table of RBCs; See Table 2 for select VOCs

(8) = sample analyzed by EPA Method 8260

>Cstat = This soil RBC exceeds the limit of the 3-phase equilibrium partitioning. Refer to "Chem Data" page of the document referenced above for corresponding value of Cstat

>MAX = the constituent RBC for this pathway is greater than 1,000,000 mg/kg. Therefore, this substance is deemed not to pose risks in this scenario

* = LCS spike recovery is outside acceptable limits. Result may be biased low.

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

- = not analyzed

† = equipment blank and trip blank (µg/L); not compared to listed RBCs

BTEX = benzene, toluene, ethylbenzene, total xylenes

EBD = 1,2-dibromoethane

EDC = 1,2-dichloroethane

mg/kg = milligrams per kilogram

MTBE = methyl tert-butyl ether

na = not applicable

Naph = naphthalene

ne = not established on RBC Table

nv = This chemical is considered "non volatile" for purposes of the exposure calculations in this document.

ODEQ RBCs = State of Oregon Department of Environmental Quality Risk-Based Concentrations

Pb = lead

PID = photoionization detector

ppmv = parts per million by volume

SB = soil boring

TPH-Dx = diesel-range petroleum hydrocarbons

TPH-Gx = total gasoline-range petroleum hydrocarbons

TPH-Ox = oil-range petroleum hydrocarbons (heavy oil)

VOCs = volatile organic compounds



Table 1
Summary of Historical Soil Analytical Results
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx (mg/kg)	TPH-Ox (mg/kg)	TPH-Gx (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	EDC (mg/kg)	Naph (mg/kg)	Other VOCs (mg/kg)	Total Pb (mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										

Notes:

BOLD = Result in BOLD exceeds cleanup level for soil for the leaching to groundwater pathway

(1) = ODEQ RBC for Soil Leaching to Groundwater - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)

(2) = No other VOCs detected

(3) = Other VOCs detected. See Table 2 and refer to laboratory analytical reports

(4) = ODEQ RBC for Vapor Intrusion in Buildings - occupational receptor scenario (see OQED Table of RBCs for Individual Chemicals Revision: May 2018, revised August 2023)

(5) = ODEQ RBC for Volatilization to Outdoor Air - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)

(6) = ODEQ RBC for Soil Injection, Dermal Contact, and Inhalation - occupational receptor scenario (see OQED Table of RBCs for Individual Chemicals Revision: May 2018, revised August 2023)

(7) = see ODEQ Table of RBCs; See Table 2 for select VOCs

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* = LCS spike recovery is outside acceptable limits. Result may be biased low.

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

- = not analyzed

† = equipment blank and trip blank (µg/L); not compared to listed RBCs

BTEX = benzene, toluene, ethylbenzene, total xylenes

EBD = 1,2-dibromoethane

EDC = 1,2-dichloroethane

mg/kg = milligrams per kilogram

MTBE = methyl tert-butyl ether

na = not applicable

Naph = naphthalene

ne = not established on RBC Table

nv = This chemical is considered "non volatile" for purposes of the exposure calculations in this document.

ODEQ RBCs = State of Oregon Department of Environmental Quality Risk-Based Concentrations

Pb = lead

PID = photoionization detector

ppmv = parts per million by volume

SB = soil boring

TPH-Dx = diesel-range petroleum hydrocarbons

TPH-Gx = total gasoline-range petroleum hydrocarbons

TPH-Ox = oil-range petroleum hydrocarbons (heavy oil)

VOCs = volatile organic compounds



Table 2
Summary of Historical Soil Analytical Results - Additional VOCs
United Pacific #5468
Springfield, Oregon
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	Chloroform (mg/kg)	BDM (mg/kg)	IPB (mg/kg)	NPB (mg/kg)	1,3,5-TMB (mg/kg)	1,2,4-TMB (mg/kg)	SBB (mg/kg)	IPT (mg/kg)	NBB (mg/kg)	TBB (mg/kg)
Method 8260/5035														
2020 Site Assessment														
SB-1	SB-1-5	11/05/20	5	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	SB-1-10	11/05/20	10	0.0	--	--	--	--	--	--	--	--	--	--
	SB-1-15	11/05/20	15	1,751	<0.03	<0.03	0.23	1.2	2.1	7.6	<0.04	0.18	0.24	<0.04
	SB-1-20	11/05/20	20	249	--	--	--	--	--	--	--	--	--	--
SB-6	SB-6-5	11/05/20	5	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	SB-6-10	11/05/20	10	0.0	--	--	--	--	--	--	--	--	--	--
	SB-6-15	11/05/20	15	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	SB-6-20	11/05/20	20	0.0	--	--	--	--	--	--	--	--	--	--
EW-2	EW-2-25	11/17/20	25	0.0	--	--	--	--	--	--	--	--	--	--
	EW-2-30	11/17/20	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
EW-3	EW-3-20	11/17/20	20	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	EW-3-25	11/17/20	25	0.0	--	--	--	--	--	--	--	--	--	--
	EW-3-30	11/17/20	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
2021 Additional Site Assessment														
MW-1	MW-1-13	03/16/21	13	11.1	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-1-15	03/16/21	15	804	<0.03	<0.03	0.17	0.87	1.5	5.0	0.080	0.16	0.17	0.77
	MW-1-25	03/16/21	25	0.0	<0.03	<0.03	<0.05	<0.04	0.040	0.14	<0.04	<0.04	<0.04	<0.04
	MW-1-30	03/16/21	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-2	MW-2-13	03/16/21	13	973	<0.03	<0.03	5.0	21	35	130	1.8	2.9	3.8	6.0
	MW-2-25	03/16/21	25	0.4	<0.03	<0.03	<0.05	0.043	0.067	0.29	<0.04	<0.04	<0.04	0.043
MW-3	MW-3-12	03/15/21	12	0.0	<0.03	<0.03	<0.05	<0.04	0.053	0.24	<0.04	<0.04	<0.04	<0.04
	MW-3-30	03/15/21	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-4	MW-4-10	03/17/21	10	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-4-15	03/17/21	15	171	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	DUP-3 (MW-4-15)	03/17/21	15	171	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-4-30	03/17/21	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-5	MW-5-19	03/17/21	19	nm	<0.03	<0.03	3.1	8.5	20	74	<0.04	1.8	2.1	5.3
	MW-5-30	03/17/21	30	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-6	MW-6-17	03/17/21	17	247	<0.03	<0.03	<0.05	13	23	81	1.1	1.9	2.1	12
	MW-6-30	03/17/21	30	0.9	<0.03	<0.03	<0.05	<0.04	0.051	0.16	<0.04	<0.04	<0.04	<0.04
MW-7	MW-7-10	03/17/21	10	12.4	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
2022 Well Installation														
MW-8	MW-8-10	11/15/22	10	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-8-15	11/15/22	15	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-8-20	11/15/22	20	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-8-25	11/15/22	25	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-9	MW-9-10	11/16/22	10	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-9-15	11/16/22	15	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-9-20	11/16/22	20	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-9-25	11/16/22	25	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-10	MW-10-10	11/17/22	10	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-10-15	11/17/22	15	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-10-20	11/17/22	20	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
MW-11	MW-11-10	11/17/22	10	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-11-15	11/17/22	15	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	MW-11-20	11/17/22	20	0.0	<0.03	<0.03	<0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04



Table 2
Summary of Historical Soil Analytical Results - Additional VOCs
United Pacific #5468
Springfield, Oregon
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	Chloroform (mg/kg)	BDM (mg/kg)	IPB (mg/kg)	NPB (mg/kg)	1,3,5-TMB (mg/kg)	1,2,4-TMB (mg/kg)	SBB (mg/kg)	IPT (mg/kg)	NBB (mg/kg)	TBB (mg/kg)
Method 8260/5035														
Additional QA/QC Samples (water)¹					Chloroform (µg/L)	BDM (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)	DCM (µg/L)	EDB (µg/L)
na	EB-1	11/15/22	na	na	1.3	2.3	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.01
na	EB-2	11/16/22	na	na	1.3	1.9	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<0.01
na	EB-3	11/17/22	na	na	1.3	2.5	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.055
na	Trip Blank	11/17/22	na	na	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.01
Additional QA/QC Samples (soil)					Chloroform (mg/kg)	BDM (mg/kg)	IPB (mg/kg)	NPB (mg/kg)	1,3,5-TMB (mg/kg)	1,2,4-TMB (mg/kg)	SBB (mg/kg)	IPT (mg/kg)	NBB (mg/kg)	TBB (mg/kg)
na	Dup-1	11/16/22	25	0.0	<0.03	<0.03	<4.0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
na	Dup-2	11/17/22	15	0.0	<0.03	<0.03	<4.0	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
RBC: Leaching to groundwater ⁽¹⁾					0.015	0.0088	>Cstat	ne	53	48	ne	ne	ne	ne
RBC: Vapor Intrusion into Buildings ⁽²⁾					na	na	na	na	na	na	na	na	na	na
RBC: Volatilization to Outdoor Air ⁽³⁾					17	11	>Cstat	ne	>Cstat	>Cstat	ne	ne	ne	ne
RBC: Direct Contact ⁽⁴⁾					26	15	57,000	ne	6,900	6,900	ne	ne	ne	ne
<p>Notes:</p> <p>BOLD = Result in BOLD exceed cleanup levels for soil for the leaching to groundwater pathway samples analyzed for gasoline-range organics using NWTPH-Gx and BTEX using Method 8260; select samples further analyzed for diesel- and oil-range organics using NWTPH-Dx/Ox, for full scan VOCs using Method 8260</p> <p>(1) = OQED RBC Cleanup Level for Soil Leaching to Groundwater - occupational receptor scenario (see OQED Table of RBCs for Individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(2) = OQED RBC for Vapor Intrusion in Buildings - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(3) = OQED RBC for Volatilization to Outdoor Air - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(4) = OQED RBC for Soil Injection, Dermal Contact, and Inhalation - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>-- = not analyzed</p> <p>< = not detected at or above stated laboratory reporting limit (RL)</p> <p>>Cstat = This soil RBC exceeds the limit of the 3-phase equilibrium partitioning. Refer to "Chem Data" page for corresponding value of >Cstat</p> <p>>MAX = the constituent RBC for this pathway is greater than 1,000,000 mg/kg. Therefore, this substance is deemed not to pose risks in this scenario</p> <p>BB = butylbenzene</p> <p>BDM = bromodichloromethane</p> <p>ft bgs = feet below ground surface</p> <p>IPB = isopropylbenzene</p> <p>IPT = p-isopropyltoluene</p> <p>mg/kg = milligrams per kilogram</p> <p>NPB = n-propylbenzene</p> <p>na = not applicable</p> <p>NBB = n-butylbenzene</p> <p>ne = not established on RBC Table</p> <p>OQED = State of Oregon Department of Environmental Quality</p> <p>RBCs = Risked- Based Concentrations established by the OQED</p> <p>PID = photoionization detector</p> <p>ppmv = parts per million by volume</p> <p>SB = soil boring</p> <p>SBB =sec-butylbenzene</p> <p>VOCs = volatile organic compounds</p> <p>1,2,4-TMB = 1,2,4 trimethylbenzene</p> <p>1,3,5-TMB = 1,3,5 trimethylbenzene</p> <p>† = equipment blank and trip blank (µg/L); not compared to listed RBCs</p>														



Table 3
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
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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 (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 ⁽⁴⁾	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	0.00	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	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 ⁽⁶⁾		--	10.74	Sheen	-0.01	0.00	500.12	-0.31	0.00	1.72	2.60	35.1
	05/15/24 ⁽⁶⁾		--	10.56	0.00	0.00	500.30	0.18	0.00	1.72	2.70	37.8	
06/12/24 ⁽⁶⁾		11.51	11.54	0.03	0.03	499.34	-0.96	0.05	1.77	1.95	39.8		
07/11/24 ⁽⁶⁾		--	11.79	Sheen	-0.03	0.00	499.07	-0.27	0.10	1.87	1.70	41.5	
08/21/24		--	11.78	0.00	0.00	499.08	0.01	0.26	2.13	0.00	0.0		
09/24/24		--	11.89	Sheen	0.00	0.00	498.97	-0.11	0.00	2.13	0.00	0.0	
10/29/24		--	11.36	0.00	0.00	499.50	0.53	0.00	2.13	0.3	0.0		
EW-2	11/19/20 ⁽⁴⁾	510.90	11.20	11.68	0.48	--	499.59	--	32.5	32.50	617.5 ⁽⁴⁾	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 ⁽³⁾		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 3
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
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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 (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		
	07/11/24		--	11.87	0.00	0.00	499.04	-0.21	0.00	0.83	0.0	13.3		
	08/21/24		--	11.82	0.00	0.00	499.09	0.05	0.00	0.83	0.0	13.3		
	09/24/24		--	11.22	0.00	0.00	499.69	0.60	0.00	0.83	0.0	13.3		
	10/29/24		--	11.70	0.00	0.00	499.21	-0.48	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 ⁽³⁾	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 ⁽³⁾		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⁾	510.67		12.89	12.90	0.01	--	497.78	--	0.10	0.10	2.0	2.0
		11/14/22			--	10.97	0.00	-0.01	499.70	1.92	0.00	0.10	0.0	2.0
		12/19/22 ^(4,5)			12.08	12.30	0.22	0.22	498.54	-1.16	1.00	1.10	8.0	10.0
	01/18/23 ⁽⁴⁾	11.67		11.68	0.01	-0.21	499.00	0.46	0.50	1.60	4.5	14.5		
	02/28/23 ⁽⁵⁾	--		11.60	0.00	-0.01	499.07	0.07	0.00	1.60	1.5	16.0		
	03/27/23	--		11.20	0.00	0.00	499.47	0.40	1.60	3.20	4.9	20.9		
	04/06/23	--		11.00	0.00	0.00	499.67	0.20	0.10	3.30	1.4	22.3		
	05/09/23	10.60		10.62	0.02	0.02	500.07	0.40	0.30	3.60	3.0	25.3		
	06/29/23	--		12.72	0.00	-0.02	497.95	-2.12	0.00	3.60	0.0	25.3		
	07/27/23	--		12.81	0.00	0.00	497.86	-0.09	0.00	3.60	0.0	25.3		
	08/10/23	--		13.04	0.00	0.00	497.63	-0.23	0.00	3.60	0.0	25.3		
	09/19/23	--		13.07	0.00	0.00	497.60	-0.03	0.00	3.60	0.0	25.3		
	10/25/23	--		12.19	0.00	0.00	498.48	0.88	0.00	3.60	0.0	25.3		
	11/21/23	--		12.01	0.00	0.00	498.66	0.18	0.00	3.60	0.0	25.3		
	12/13/23	--		9.29	0.00	0.00	501.38	2.72	0.00	3.60	0.0	25.3		
	01/30/24	--		10.51	0.00	0.00	500.16	-1.22	0.00	3.60	0.0	25.3		
	02/27/24	--		11.19	0.00	0.00	499.48	-0.68	0.00	3.60	0.5	25.8		
	03/28/24	--		11.20	0.00	0.00	499.47	-0.01	0.00	3.60	0.0	25.8		
	04/16/24	--		11.45	0.00	0.00	499.22	-0.25	0.00	3.60	0.0	25.8		
	05/14/24	--		11.34	0.00	0.00	499.33	0.11	0.00	3.60	0.0	25.8		
	06/12/24	--		12.20	0.00	0.00	498.47	-0.86	0.00	3.60	0.0	25.8		
	07/11/24	--		12.43	0.00	0.00	498.24	-0.23	0.00	3.60	0.0	25.8		
	08/21/24	--		12.42	0.00	0.00	498.25	0.01	0.00	3.60	0.0	25.8		
	09/24/24	--		12.30	0.00	0.00	498.37	0.12	0.00	3.60	0.0	25.8		
	10/29/24	--		12.28	0.00	0.00	498.39	0.02	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		



Table 3
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
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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 (ft amsl)	Elevation Change (ft)	Estimated LPH Removed (gal)	Cumulative LPH Removed (gal)	Estimated Water Removed (gal)	Cumulative Water Removed (gal)	
MW-1 Cont.	10/06/21	512.70	--	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	
	11/17/21		--	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
	07/11/24		--	--	13.61	0.00	-0.01	499.09	-0.32	0.00	28.36	0.00	165.7
	08/21/24		--	--	13.62	0.00	0.00	499.08	-0.01	0.00	28.36	0.00	165.7
	09/24/24		--	--	13.45	0.00	0.00	499.25	0.17	0.00	28.36	0.00	165.7
	10/29/24		--	--	12.83	0.00	0.00	499.87	0.62	0.00	28.36	0.00	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	0.00	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
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	
07/11/24		--	--	12.48	0.00	0.00	498.81	-0.50	0.00	25.91	0.00	177.2	
08/21/24		--	--	12.29	0.00	0.00	499.00	0.19	0.00	25.91	0.00	177.2	
09/24/24		--	--	12.11	0.00	0.00	499.18	0.18	0.00	25.91	0.00	177.2	
10/29/24		--	--	11.74	0.00	0.00	499.55	0.37	0.00	25.91	0.00	177.2	



Table 3
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
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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 (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 ^(6,3)	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	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		
07/11/24	--	10.43	0.00	0.00	498.67	-0.39	0.00	11.73	2.00	48.2		
08/21/24	--	10.33	0.00	0.00	498.77	0.10	0.26	11.99	0.00	48.2		
09/24/24	--	10.49	Sheen	0.00	498.61	-0.16	0.00	11.99	0.00	48.2		
10/29/24	--	10.79	0.00	0.00	498.31	-0.30	0.1	12.09	0.1	48.3		
MW-6	03/30/21 ^(6,3)	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 3
United Pacific #5468
Summary of LPH Removal
Springfield, Oregon
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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
	07/11/24		--	11.68	Sheen	-0.04	498.83	-0.33	0.01	91.14	2.24	248.5
	08/21/24		--	12.62	0.00	0.00	497.89	-0.94	0.26	91.40	0.00	248.5
	09/24/24		--	12.78	Sheen	0.00	497.73	-0.16	0.00	91.40	0.00	248.5
	10/29/24		--	10.98	0.00	0.00	499.53	1.80	0.00	91.40	0.2	248.7
	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										2.13	0.0	
EW-2R Cumulative										0.83	13.3	
MW-1 Cumulative										28.36	165.7	
MW-2 Cumulative										25.91	177.2	
MW-5 Cumulative										12.09	48.3	
MW-6 Cumulative										91.40	248.7	
Cumulative Removed From Site Wells										361.40	3,728.0	
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).						†: LPH accumulation in skimmer						
(2): recorded value is gallons of LPH and water removed						amsl: above mean sea level						
(3): overpurgings conducted using a vacuum truck						btoc: below top of casing						
(4): LPH removal by manual bailing						btotfp: below top of fill port						
(5): LPH removal using downhole skimmer initiated						ft: feet						
(6): LPH removal using peristaltic pump						gal: gallons						
(7): LPH removal using vacuum truck						LPH: liquid phase hydrocarbons						
(8): well sampled using low-flow purge methods						Sheen: LPH sheen observed						
(9): downhole skimmer removed						TOC: top of casing						
--: not detected / not applicable / not surveyed						TOFF: top of fill port						
*: thickness measurements made in reference to total depth of premium UST = 12.20 btotfp												
**: water volume estimates based on Containment Solutions* 12,000 gallon fiberglass double wall UST volume chart												



Table 4
Soil Boring and Well Construction Summary
United Pacific #5468
Springfield, Oregon
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Well/Boring ID	Consultant	Date Installed	Drilling Method	Total Boring Depth (feet)	Total Well Depth (feet)	Well Casing Diameter (inches)	Screen Interval (feet)	Slot Size (inches)	Sealing Material	Casing Elevation (feet amsl)
SB-1	Montrose	11/05/20	DP	21.0	na	na	na	na	bentonite	na
SB-2	Montrose	11/05/20	DP	20.0	na	na	na	na	bentonite	na
SB-3	Montrose	11/05/20	DP	20.0	na	na	na	na	bentonite	na
SB-4	Montrose	11/05/20	DP	20.0	na	na	na	na	bentonite	na
SB-5	Montrose	11/05/20	DP	20.0	na	na	na	na	bentonite	na
SB-6	Montrose	11/05/20	DP	24.0	na	na	na	na	bentonite	na
EW-1	Montrose	11/17/20	sonic	25.0	25	4	5-25	0.020	bentonite	510.97
EW-2	Montrose	11/17/20	sonic	30.0	25	4	5-25	0.020	bentonite	510.90
EW-3	Montrose	11/18/20	sonic	30.0	25	4	5-25	0.020	bentonite	511.63
MW-1	Montrose	03/16/21	sonic	30.0	25	4	5-25	0.020	bentonite	512.70
MW-2	Montrose	03/16/21	sonic	30.0	25	4	5-25	0.020	bentonite	511.29
MW-3	Montrose	03/15/21	sonic	30.0	25	4	5-25	0.020	bentonite	511.12
MW-4	Montrose	03/18/21	sonic	30.0	25	4	5-25	0.020	bentonite	509.78
MW-5	Montrose	03/17/21	sonic	30.0	25	4	5-25	0.020	bentonite	509.10
MW-6	Montrose	03/17/21	sonic	30.0	25	4	5-25	0.020	bentonite	510.51
MW-7	Montrose	03/17/21	sonic	30.0	25	4	5-25	0.020	bentonite	511.65
EW-1R	Montrose	09/21/22	sonic	25.0	23	4	13-23	0.020	bentonite	510.86
EW-2R	Montrose	09/21/22	sonic	25.0	23	4	13-23	0.020	bentonite	510.91
EW-4	Montrose	09/20/22	sonic	25.0	23	4	13-23	0.020	bentonite	510.67
MW-8	Montrose	11/15/22	sonic	25.0	18	4	8-18	0.010	bentonite	509.75
MW-9	Montrose	11/16/22	sonic	25.0	17	4	7-17	0.020	bentonite	509.89
MW-10	Montrose	11/17/22	sonic	20.0	17	4	7-17	0.020	bentonite	511.13
MW-11	Montrose	11/17/22	sonic	20.0	17	2	7-17	0.020	bentonite	511.69
MW-12	Montrose	10/03/24	sonic	21.0	20	4	5-20	0.020	bentonite	512.61
MW-13	Montrose	10/03/24	sonic	21.0	20	4	5-20	0.020	bentonite	509.71
SV-1	Montrose	10/03/24	HA	5.5	na	na	na	na	bentonite	na
SV-2	Montrose	10/03/24	HA	5.0	na	na	na	na	bentonite	na

Notes:

amsl = above mean sea level
DP = direct push (Geoprobe® 7822DT)
EW = remediation/ extraction well
HA = hand auger
MW = monitoring well
na = not applicable
ns = not surveyed
SB = soil boring
sonic = rotary sonic (Terra Sonic TSi 150LC or equivalent)



Table 5
Summary of Soil Analytical Results - 2024
United Pacific #5468
Springfield, Oregon
Page 1 of 1

Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	TPH-Dx	TPH-Ox	TPH-Gx	B	T	E	X	MTBE	EDB	EDC	Naph	Other VOCs	Total Pb	
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					NWTPH-Dx Extended	NWTPH-Gx	Method 8260 and Method 8260/5035										Method 7010	
2024 Well Installation																		
MW-12	MW-12-5	10/03/24	5	0.0	--	--	<4.70	<0.00940	<0.0470	<0.0235	<0.0235	<0.0470	<0.0470	<0.0235	<0.0940	(2)	--	
	MW-12-10	10/03/24	10	0.0	--	--	<4.39	<0.00878	<0.0439	<0.0219	<0.0219	<0.0439	<0.0439	<0.0219	<0.0878	(2)	--	
	MW-12-15	10/03/24	15	0.0	--	--	<4.50	<0.00900	<0.0450	<0.0225	<0.0225	<0.0450	<0.0450	<0.0225	<0.0900	(2)	--	
	MW-12-20	10/03/24	20	0.1	--	--	<13.7	<0.0273	<0.137	<0.0683	<0.0683	<0.137	<0.137	<0.0683	<0.273	(2)	--	
MW-13	MW-13-5	10/03/24	5	0.1	--	--	<4.60	<0.00920	<0.0460	<0.0230	<0.0230	<0.0460	<0.0460	<0.0230	<0.0920	(2)	--	
	MW-13-10	10/03/24	10	0.0	--	--	<4.73	<0.00946	<0.0473	<0.0236	<0.0236	<0.0473	<0.0473	<0.0236	<0.0946	(2)	--	
	MW-13-15	10/03/24	15	0.0	--	--	<5.17	<0.0103	<0.0517	<0.0258	<0.0258	<0.0517	<0.0517	<0.0258	<0.103	(2)	--	
	MW-13-20	10/03/24	20	0.0	--	--	<5.29	<0.0106	<0.0529	<0.0265	<0.0265	<0.0529	<0.0529	<0.0265	<0.106	(2)	--	
	MW-13-20 (Dup)	10/03/24	20	0.0	--	--	<5.50	<0.0110	<0.0550	<0.0275	<0.0275	<0.0550	<0.0550	<0.0275	<0.110	(2)	--	
Additional QA/QC Samples (water)¹					TPH-Dx	TPH-Ox	TPH-Gx	B	T	E	X	MTBE	EDB	EDC	Naph	Other VOCs	Total Pb	
					(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
na	Equipment Blank	10/03/24	na	na	--	--	<100	<0.200	<1.00	<0.500	<0.500	<1.00	<0.500	<0.400	<5.00	(2)	--	
na	Trip Blank	10/03/24	na	na	--	--	<100	<0.200	<1.00	<0.500	<0.500	<1.00	<0.500	<0.400	<5.00	(2)	--	
RBC: Leaching to groundwater ⁽¹⁾					>MAX	>MAX	130	0.10	490	0.90	100	0.54	0.00056	0.013	0.34	(7)	30	
RBC: Vapor intrusion into Buildings ⁽⁴⁾					na	na	na	na	na	na	na	na	na	na	na	na	(7)	nv
RBC: Vapor Intrusion to Outdoor Air ⁽⁵⁾					>MAX	>MAX	69,000	50	>Cstat	160	>Cstat	1,500	0.65	15	83	(7)	nv	
RBC: Direct Contact ⁽⁶⁾					14,000	36,000	20,000	37	88,000	150	25,000	1,100	0.73	16	23	(7)	800	
Notes:																		
<p>BOLD = Result in BOLD exceeds RBC for soil for the leaching to groundwater pathway</p> <p>(1) = ODEQ RBC for Soil Leaching to Groundwater - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(2) = No other VOCs detected</p> <p>(3) = Other VOCs detected. See Table 6 and refer to laboratory analytical reports (Appendix F)</p> <p>(4) = ODEQ RBC for Vapor intrusion into Buildings - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(5) = ODEQ RBC for Volatilization to Outdoor Air - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(6) = ODEQ RBC for Soil Ingestion, Dermal Contact, and Inhalation - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(7) = see ODEQ Table of RBCs; See Table 2 for select VOCs</p> <p>>Cstat = This soil RBC exceeds the limit of the 3-phase equilibrium partitioning. Refer to "Chem Data" page of the document referenced above for corresponding value of Cstat</p> <p>>MAX = the constituent RBC for this pathway is greater than 1,000,000 mg/kg. Therefore, this substance is deemed not to pose risks in this scenario</p> <p>* = LCS spike recovery is outside acceptable limits. Result may be biased low.</p> <p>< = not detected at or above the stated laboratory reporting limit (RL)</p> <p>-- = not analyzed</p> <p>† = equipment blank and trip blank (µg/L); not compared to listed RBCs</p> <p>BTEX = benzene, toluene, ethylbenzene, total xylenes</p> <p>EBD = 1,2-dibromoethane</p> <p>EDC = 1,2-dichloroethane</p> <p>mg/kg = milligrams per kilogram</p> <p>MTBE = methyl tert-butyl ether</p> <p>na = not applicable</p> <p>Naph = naphthalene</p> <p>ne = not established on RBC Table</p> <p>nv = This chemical is considered "non volatile" for purposes of the exposure calculations in this document.</p> <p>ODEQ = State of Oregon Department of Environmental Quality</p> <p>RBCs = Quality Risk-Based Concentrations established by the ODEQ</p> <p>Pb = lead</p> <p>PID = photoionization detector</p> <p>ppmv = parts per million by volume</p> <p>TPH-Dx = diesel-range petroleum hydrocarbons</p> <p>TPH-Gx = total gasoline-range petroleum hydrocarbons</p> <p>TPH-Ox = oil-range petroleum hydrocarbons (heavy oil)</p> <p>VOCs = volatile organic compounds</p>																		



Table 6
Soil Analytical Results - Additional VOCs - 2024
United Pacific #5468
Springfield, Oregon
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Boring ID	Sample ID	Date Sampled	Depth (ft bgs)	PID Readings (ppmv)	Chloroform (mg/kg)	BDM (mg/kg)	IPB (mg/kg)	NPB (mg/kg)	1,3,5-TMB (mg/kg)	1,2,4-TMB (mg/kg)	SBB (mg/kg)	IPT (mg/kg)	NBB (mg/kg)	TBB (mg/kg)
Method 8260/5035														
2024 Well Installation														
MW-12	MW-12-5	10/03/24	5	0.0	<0.0470	<0.0470	<0.0470	<0.0235	<0.0470	<0.0470	<0.0470	<0.0470	<0.0470	--
	MW-12-10	10/03/24	10	0.0	<0.0439	<0.0439	<0.0439	<0.0219	<0.0439	<0.0439	<0.0439	<0.0439	<0.0439	--
	MW-12-15	10/03/24	15	0.0	<0.0450	<0.0450	<0.0450	<0.0225	<0.0450	<0.0450	<0.0450	<0.0450	<0.0450	--
	MW-12-20	10/03/24	20	0.1	<0.137	<0.137	<0.137	<0.0683	<0.137	<0.137	<0.137	<0.137	<0.137	--
MW-13	MW-13-5	10/03/24	5	0.1	<0.0460	<0.0460	<0.0460	<0.0230	<0.0460	<0.0460	<0.0460	<0.0460	<0.0460	--
	MW-13-10	10/03/24	10	0.0	<0.0473	<0.0473	<0.0473	<0.0236	<0.0473	<0.0473	<0.0473	<0.0473	<0.0473	--
	MW-13-15	10/03/24	15	0.0	<0.0517	<0.0517	<0.0517	<0.0258	<0.0517	<0.0517	<0.0517	<0.0517	<0.0517	--
	MW-13-20	10/03/24	20	0.0	<0.0529	<0.0529	<0.0529	<0.0265	<0.0529	<0.0529	<0.0529	<0.0529	<0.0529	--
	MW-13-20 (Dup)	10/03/24	20	0.0	<0.0550	<0.0550	<0.0550	<0.0275	<0.0550	<0.0550	<0.0550	<0.0550	<0.0550	--
Additional QA/QC Samples (water)[†]					chloroform (µg/L)	BDM (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)	DCM (µg/L)	EDB (µg/L)
na	Equipment Blank	10/03/24	na	na	<1.00	<1.00	<1.00	<0.500	<1.00	<1.00	<1.00	<1.00	--	<0.500
na	Trip Blank	10/03/24	na	na	<1.00	<1.00	<1.00	<0.500	<1.00	<1.00	<1.00	<1.00	--	<0.500
RBC: Leaching to groundwater ⁽¹⁾					0.015	0.0088	>Csat	ne	53	48	ne	ne	ne	ne
RBC: Vapor Intrusion into Buildings ⁽⁴⁾					na	na	na	na	na	na	na	na	na	na
RBC: Volatilization to Outdoor Air ⁽⁵⁾					17	11	>Csat	ne	>Csat	>Csat	ne	ne	ne	ne
RBC: Direct Contact ⁽⁶⁾					26	15	57,000	ne	6,900	6,900	ne	ne	ne	ne
Notes:														
<p>BOLD = Result in BOLD exceed cleanup levels for soil for the leaching to groundwater pathway</p> <p>samples analyzed for gasoline-range organics using NWTPH-Gx and BTEX using Method 8260;</p> <p>select samples further analyzed for diesel- and oil-range organics using NWTPH-Dx/Ox, for full scan VOCs using Method 8260</p> <p>(1) = OQED RBC for Soil Leaching to Groundwater - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(2) = OQED RBC for Vapor Intrusion in Buildings- occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(3) = OQED RBC for Volatilization to Outdoor Air - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>(4) = OQED RBC for Soil Injection, Dermal Contact, and Inhalation - occupational receptor scenario (see OQED Table of RBCs for individual Chemicals Revision: May 2018, revised August 2023)</p> <p>-- = not analyzed</p> <p>< = not detected at or above stated laboratory reporting limit (RL)</p> <p>>Cstat = This soil RBC exceeds the limit of the 3-phase equilibrium partitioning. Refer to "Chem Data" page for corresponding value of >Cstat</p> <p>>MAX = the constituent RBC for this pathway is greater than 1,000,000 mg/kg. Therefore, this substance is deemed not to pose risks in this scenario</p> <p>BB = butylbenzene</p> <p>BDM = bromodichloromethane</p> <p>DCM = dichloromethane</p> <p>EDB = 1,2-Dibromoethane</p> <p>ft bgs = feet below ground surface</p> <p>IPB = isopropylbenzene</p> <p>IPT = p-isopropyltoluene</p> <p>mg/kg = milligrams per kilogram</p> <p>NPB = n-propylbenzene</p> <p>na = not applicable</p> <p>NBB = n-butylbenzene</p> <p>ne = not established on RBC Table</p> <p>ODEQ = State of Oregon Department of Environmental Quality</p> <p>RBCs = Risked- Based Concentrations established by the ODEQ</p> <p>PID = photoionization detector</p> <p>ppmv = parts per million by volume</p> <p>SB = soil boring</p> <p>SBB =sec-butylbenzene</p> <p>TBB = 4,5,6,7-tetrabromobenzotriazole</p> <p>VOCs = volatile organic compounds</p> <p>1,2,4-TMB = 1,2,4 trimethylbenzene</p> <p>1,3,5-TMB = 1,3,5 trimethylbenzene</p> <p>† = equipment blank and trip blank (µg/L); not compared to listed RBCs</p>														



Table 7
Summary of Groundwater Monitoring Data
United Pacific #5468
Springfield, Oregon
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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)	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	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	12.83	24.47	0.00	512.70	499.87	0.62	4	5-25	
MW-2	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.74	25.10	0.00	511.29	499.55	0.37	4	5-25	
MW-3	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.30	26.44	0.00	511.12	499.82	0.42	4	5-25	
MW-4	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.56	24.01	0.00	509.78	499.22	-0.05	4	5-25	
MW-5	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.79	22.72	0.00	509.10	498.31	-0.30	4	3.5-23.5	
MW-6	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.98	24.91	0.00	510.51	499.53	1.80	4	5-25	
MW-7	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	12.11	24.91	0.00	511.65	499.54	0.49	4	5-25	
MW-8	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.20	18.04	0.00	509.75	498.55	0.71	4	8-18	
MW-9	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.28	17.38	0.00	509.89	499.61	0.40	4	7-17	
MW-10	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.88	18.01	0.00	511.13	499.25	0.44	4	7-17	
MW-11	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.60	19.96	0.00	511.69	500.09	0.51	2	10-20	
MW-12	Active	10/29/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	--	1.20	170.9	453	6.92	18.9	24	ND	12.53	20.09	0.00	512.61	500.08	--	4	5-20	
MW-13	Active	10/29/24	--	--	9,400	630	2,800	230	1,600	<5.0	34	<0.010	<1.0	--	1.18	60.9	979	6.54	18.6	27	ND	10.57	20.93	0.00	509.71	499.14	--	4	5-20	
EW-1R	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.36	22.81	0.00	510.86	499.50	0.53	4	13-23	
EW-2R	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.70	22.94	0.00	510.91	499.21	-0.48	4	13-23	
EW-4	Active	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	12.28	23.01	0.00	510.67	498.39	0.02	4	13-23	
NW Obs.	Observation	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	5-15		
NE Obs.	Observation	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	5-15		
SE Obs.	Observation	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	5-15		
SW Obs.	Observation	10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	
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		
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		
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		

Notes:

Results in **BOLD** indicate detections that exceed the ODEQ Risk-Based Concentrations (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 - Ingestion and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs for Individual Chemicals - Revision: May 2018 revised August 2023)

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

(4): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see OQED Table 1 Chronic & Acute Vapor Intrusion Risk-Based Concentrations - March 2024)

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

--: 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

Fe²⁺: 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 Department 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 8
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-Ox		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		
		09/24/24	--	--	12,000	60	240	170	1,100	<5.0	52	<0.010	<1.0	(8)	ND	13.45	0.00		499.25	-0.16		
DUP-1		09/24/24	--	--	8,000	92	250	170	910	<5.0	45	<0.010	<1.0	(8)	--	--	--		--	--		
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	ND	12.83	0.00		499.87	0.62			
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)	--	--	--		--	--
		09/24/24	--	--	20,000	490	2,500	630	3,500	<5.0	91	<0.010	<1.0	(9)	ND	12.11	0.00		499.18	-0.13		
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	ND	11.74	0.00		499.55	0.37			
MW-3	Active	03/30/21	--	--	<100	<1.0	<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	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.89	0.00		499.23	-0.57	
		09/23/21	--	--	<100	<1.0	<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	<1.0	<2.0	<5.0	<5.0	<0.01	<1.0	(8)	ND	11.86	0.00		499.26	0.03	
		01/11/22 ⁽¹⁰⁾	--	--	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		
		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
		09/24/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	11.72	0.00		499.40	-0.05		
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	ND	11.30	0.00		499.82	0.42			
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	--		
		06/23/21	--	--	190,000	3,000	25,000 E	3,000	17,000	<5.0	250	<0.01	<1.0	(9)	--	--	--		--	--		
		09/23/21	--	--	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		
		DUP-1		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
				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
				06/28/22	--	--	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	<1.0	<1.0	1,500	50	<50	<0.10	<10							

Table 8
Summary of Historical Groundwater Monitoring Data
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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-Ox		NWTPH-Gx	EPA Method 8260D															
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	499.32	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	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	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	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	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	499.89	-0.68	
		09/24/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.11	0.00	499.58	499.58	-0.31	
10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.60	0.00	500.09	500.09	0.51			
MW-12	Active	10/24/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	ND	12.53	0.00	512.61	500.08	--	
DUP-1		10/24/24	--	--	<100	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--	
MW-13	Active	10/24/24	--	--	9,400	630	2,800	230	1,600	<5.0	34	<0.010	<1.0	(9)	ND	10.57	0.00	509.71	499.14	--	
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	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	499.25	0.02	
		12/22/21	--	--	40,000	560	2,700 E	580	<20	<50	87	<0.10	<1.0	(9)	ND	9.90	0.00	501.07	501.07	1.82	
		DUP-1	12/22/21	--	--	40,000	600	2,900 E	620	<20	<50	22	<0.10	<1.0	(9)	--	--	--	--	--	--
Abandoned ⁽¹¹⁾	01/11/22 ⁽¹⁰⁾	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	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	499.54	0.85	
		04/06/23 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	10.10	10.11	0.01	500.75	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	499.04	-1.71	
		9/18/23 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	12.30	12.45	0.15	498.52	498.52	-0.52	
		12/13/23 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	10.18	0.00	500.68	500.68	2.16	
		03/28/24 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	10.43	10.44	0.01	500.43	500.43	-0.25	
		06/12/24 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	11.51	11.54	0.03	499.34	499.34	-1.08	
		09/24/24 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	11.89	0.00	498.97	498.97	-0.37	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.36	0.00	499.50	499.50	0.53	
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	498.98	-0.71	
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	11.84	11.87	0.03	499.05	499.05	0.08	
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	10.20	10.22	0.02	500.70	500.70	1.64	
		DUP-1	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	499.38	0.79	
		04/06/23	--	--	--	--	--	--	--	--	--	--	--	--	ND	10.82	0.00	500.59	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	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	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	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	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	499.25	-1.01	
		09/24/24	--	--	13,000	300	2,300	330	2,100	<5.0	53	<0.010	<1.0	(9)	ND	11.22	0.00	499.69	499.69	0.44	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	ND	11.70	0.00	499.21	499.21	-0.48	
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	499.23	-0.67	
		09/23/21	--	--	--	--	--	--	--	--	--	--	--	--	12.36	12.45	0.09	499.25	499.25	0.02	
		12/22/21	--	--	--	--	--	--	--	--	--	--	--	--	10.76	10.77	0.01	500.87	500.87	1.62	
		DUP-1	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	498.54	0.76	
		4/06/23 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	--	Sheen	11.00	0.00	499.67	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	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	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	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	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	498.47	-1.00	
		09/24/24	--	--	20,000	960	2,500	380	3,400	<5.0	96	<0.010	<1.0	(9)	ND	12.30	0.00	498.37	498.37	-0.10	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	--	ND	12.28	0.00	498.39	498.39	0.02	
EB-1		QA/QC Samples																			
		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	<										

Table 8
Summary of Historical Groundwater Monitoring Data
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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												DTP ⁽¹⁾ (ft btoc)	DTW (ft btoc)	PT (ft)	CASING ⁽²⁾ (ft amsl)	GW ⁽³⁾ (ft amsl)	GW Δ (ft amsl)
EB-2 EB-2 Dup		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)	--	--	--	--	--	--				
		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)	--	--	--	--	--	--				
		12/23/21	--	--	<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)	--	--	--	--	--	--				
		09/24/24	--	--	--	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--				
		10/29/24	--	--	--	<1.0	<2.0	<1.0	<2.0	<5.0	<5.0	<0.010	<1.0	(8)	--	--	--	--	--	--				
RBC: Injection/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 - Injection and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs for Individual Chemicals - Revision: May 2018 revised August 2023)
- (5): RBC for Groundwater - Volatilization to Outdoor Air, occupational receptor scenario (see ODEQ Table of RBCs for Individual Chemicals - Revision: May 2018 revised August 2023)
- (6): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see ODEQ Table 1 Chronic & Acute Vapor Intrusion Risk-Based Concentrations - March 2024)
- (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-dichloroethane
- ft: feet
- GW: groundwater
- MTBE: Methyl tert-butyl ether
- na: not applicable
- ND: not detected
- PT: free-product thickness
- RBC: Risked Based Concentration established by the 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 9
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														
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⁾	--	--	--	--	--	--	--	--	--	--	--	
09/24/24	--	--	--	--	--	--	--	--	--	55	37			
10/29/24	--	--	--	--	--	--	--	--	--	--	--			
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			
09/24/24	--	--	--	--	--	--	--	--	--	51	29			
10/29/24	--	--	--	--	--	--	--	--	--	--	--			
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	<1.0	<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	--	--	
		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			
09/24/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0			
10/29/24	--	--	--	--	--	--	--	--	--	--	--			
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	--	--	
		DUP-1	09/22/21	18	59	120	250	1,200	<1.0	12	1.0	4.6	--	--
		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			
09/24/24	--	--	--	--	--	--	--	--	--	5.8	<5.0			
10/29/24	--	--	--	--	--	--	--	--	--	--	--			



Table 9
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-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⁾	--	--	--	--	--	--	--	--	--	--	--	
		09/24/24 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	
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⁾	--	--	--	--	--	--	--	--	--	--	--	
		09/24/24 ⁽¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	
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	--	--
		MW-7 Dup	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	--	--
			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	--	--	--	--	--	--	--	--	--	--	--	
		DUP-1	06/29/23	<2.0	9.5	<1.0	55	300	1.6	2.3	<1.0	<1.0	--	--
			06/29/23	<2.0	9.6	29	62	330	1.6	2.4	<1.0	<1.0	--	--
		DUP-1	09/19/23	--	--	--	--	--	--	--	--	--	15	10
			09/19/23	--	--	--	--	--	--	--	--	--	12	7.6
12/12/23	--		--	--	--	--	--	--	--	--	32	22		
03/27/24	--		--	--	--	--	--	--	--	--	<5.0	<5.0		
DUP-1	06/11/24	--	--	--	--	--	--	--	--	--	8.2	<5.0		
	09/24/24	--	--	--	--	--	--	--	--	--	<5.0	6.8		
	09/24/24	--	--	--	--	--	--	--	--	--	--	--		
	10/29/24	--	--	--	--	--	--	--	--	--	--	--		
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	--	--	
		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	
		09/24/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	
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	
		03/27/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0	
		06/12/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0	
		09/24/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	



Table 9
Additional VOCs Detected in Groundwater
United Pacific #5468
Springfield, Oregon
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Boring ID	Well Status	Date Sampled	CM	IPB	NPB	1,3,5-TMB	1,2,4-TMB	SBB	IPT	TBB	NBB	2-methyl	1-methyl	
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Method 8260D														
MW-10 DUP-1	Active	12/20/22	<2.0	<4.0	<1.0	<1.0	3.6	<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	<1.0	--	--
		04/06/23	<2.0	<4.0	<1.0	<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	<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
		09/24/24	--	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	Active	12/20/22	<2.0	<4.0	<1.0	<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	<1.0	--	--
		06/29/23	<2.0	<4.0	<1.0	<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
		09/24/24	--	--	--	--	--	--	--	--	--	--	<5.0	<5.0
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	--
		MW-12 ⁽⁸⁾ DUP-1	Active	10/29/24	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
10/29/24	<2.0			<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	
MW-13 ⁽⁹⁾	Active	10/29/24 ⁽⁹⁾	<2.0	9.4	17	44	130	160	<1.0	29	11	--	--	
EW-1	Active	03/30/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		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	<1.0	12	<1.0	<1.0	--	--	
		12/22/21	30	31	97	230	770	<1.0	11	<1.0	<1.0	--	--	
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	
EW-1R ⁽⁷⁾	Active	10/12/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/20/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		04/06/23 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		06/29/23	<2.0	11	35	61	1,000	2.8	4.4	<1.0	2.8	--	--	
		09/19/23 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/13/23 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		03/28/24 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		06/12/24 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		09/24/24 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	
EW-2	Active	03/30/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		06/23/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		09/23/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/22/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	
EW-2R ⁽⁷⁾	Active	10/12/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/20/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		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	
		09/24/24	--	--	--	--	--	--	--	--	--	17	11	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	
EW-3	Active	03/30/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		06/23/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		09/23/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/22/21 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		03/23/22	--	--	--	--	--	--	--	--	--	--	--	
EW-4 ⁽⁷⁾	Active	10/12/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		12/20/22 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		04/06/23 ⁽¹¹⁾	--	--	--	--	--	--	--	--	--	--	--	
		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	
		09/24/24	--	--	--	--	--	--	--	--	--	54	32	
		10/29/24	--	--	--	--	--	--	--	--	--	--	--	



Table 9
Additional VOCs Detected in Groundwater
United Pacific #5468
Springfield, Oregon
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Boring ID	Well Status	Date Sampled	CM	IPB	NPB	1,3,5-TMB	1,2,4-TMB	SBB	IPT	TBB	NBB	2-methyl	1-methyl
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Method 8260D													
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
		09/24/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0
	10/29/24	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	
EB-2 EB-2 Dup		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	--	--
		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
	09/24/24	--	--	--	--	--	--	--	--	--	--	--	
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
	09/24/24	--	--	--	--	--	--	--	--	--	<5.0	<5.0	
	10/29/24	<2.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	
RBC: Injection/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 Concentrations (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 - Injection and Inhalation from Tapwater, occupational receptor scenario (see ODEQ Table of RBCs for Individual Chemicals - Revision: May 2018 revised August 2023)													
(3): RBC for Groundwater - Volatilization to Outdoor Air, occupational receptor scenario (see ODEQ Table of RBCs for Individual Chemicals - Revision: May 2018 revised August 2023)													
(4): RBC for Groundwater - Volatilization to Indoor Air, Commercial scenario; Chronic/Acute screening values (see ODEQ Table 1 Chronic & Acute Vapor Intrusion Risk-Based Concentrations - March 2024)													
(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													
(8): Wells MW12 and MW-13 installed on October 3, 2024													
(9): Well MW-13 also contained styrene (28 µg/L), 2-Chlorotoluene (6.3 µg/L) and 4-Chlorotoluene (11 µg/L)													
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 Quality Risk-Based Concentrations													
ppmv: parts per million per volume													
SSB: sec-butylbenzene													
TBB: tert-butylbenzene													
VOCs: volatile organic compounds													



Table 10
Summary of Groundwater Flow Direction and Gradient Data
United Pacific #5468
Springfield, Oregon
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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	
09/24/24	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
10/29/24	0.013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	10	4
Notes: ft/ft: feet per foot																		



Table 11
Soil Vapor Analytical Results
United Pacific #5468
Springfield, Oregon
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		Building:	Western Adjacent Building		
		Location:	SV-1	SV-2	DUP-1 (duplicate of SV-2)
		Sample Depth (ft bgs)	5	5	5
		Collection Date:	10/29/24	10/29/24	10/29/24
Analyte	CAS Number	RBCsv - Soil Vapor Volatilization into Indoor Air (Commercial) ⁽¹⁾			
VOCs - EPA Method TO-15 (µg/m3)					
1,1,1-Trichloroethane	71-55-6	730,000	<0.218	<0.218	<0.218
1,1,2,2-Tetrachloroethane	79-34-5	7.1	<1.37	<1.37	<1.37
1,1,2-Trichloroethane	79-00-5	26	<0.218	<0.218	<0.218
1,1-Dichloroethane	75-34-3	260	<0.162	<0.162	<0.162
1,1-Dichloroethene	75-35-4	29,000	<0.159	<0.159	<0.159
1,2,4-Trichlorobenzene	120-82-1	290	<4.45	<4.45	<4.45
1,2,4-Trimethylbenzene	95-63-6	8,800	<9.83	<9.83	<9.83
1,2-Dichlorobenzene	95-50-1	29,000	<1.2	<1.2	<1.2
1,2-Dichloroethane	107-06-2	16	<0.162	<0.162	<0.162
1,2-Dichloropropane	78-87-5	110	<0.924	<0.924	<0.924
1,3,5-Trimethylbenzene	108-67-8	8,800	<2.95	<2.95	<2.95
1,3-Butadiene	106-99-0	14	<0.442	<0.442	<0.442
1,3-Dichlorobenzene	541-73-1	--	<1.2	<1.2	<1.2
1,4-Dichlorobenzene	106-46-7	37	<1.2	<1.2	<1.2
1-Propene	115-07-1	440,000	<1.03	2.2	<1.03
2-Butanone	78-93-3	730,000	1.81	4.35	<1.77
2-Hexanone	591-78-6	4,400	<2.46	2.46	<2.46
Acetone	67-64-1	NITI	18.7	14.2	<9.5
Acrolein	107-02-8	2.9	<0.0312	<0.0312	<0.0312
Benzene	71-43-2	52	1.12	0.825	0.951
Benzene, 1-Ethyl-4-Methyl-	622-96-8	--	<2.95	<2.95	<2.95
Bromoform	75-25-2	370	<2.07	<2.07	<2.07
Bromomethane	74-83-9	730	<0.777	<0.777	<0.777
Carbon Disulfide	75-15-0	100,000	23.8	12.5	<6.23
Carbon Tetrachloride	56-23-5	68	<0.252	<0.252	<0.252
CFC-11	75-69-4	NITI	1.22	<1.12	<1.12
CFC-113	76-13-1	730,000	<4.6	<4.6	<4.6
CFC-114	76-14-2	--	<4.19	<4.19	<4.19
CFC-12	75-71-8	15,000	2.46	2.3	2.38
Chlorobenzene	108-90-7	NITI, NV	<0.184	0.184	<0.184
Chlorodibromomethane	124-48-1	NITI	<1.7	<1.7	<1.7
Chloroethane	75-00-3	580,000	<1.58	<1.58	<1.58
Chloroform	67-66-3	18	<0.195	<0.195	<0.195
Chloromethane	74-87-3	13,000	0.833	0.523	0.529
Cis-1,2-Dichloroethene	156-59-2	5,800	<0.793	<0.793	<0.793
Cis-1,3-Dichloropropene	10061-01-5	--	<0.908	<0.908	<0.908
Cyclohexane	110-82-7	880,000	<2.07	<2.07	<2.07
Dichlorobromomethane	75-27-4	11	<1.34	<1.34	<1.34
Dioxane, 1,4-	123-91-1	82	<2.16	<2.16	<2.16
Ethyl Acetate	141-78-6	10,000	<7.21	<7.21	<7.21
Ethylbenzene	100-41-4	160	<8.68	<8.68	<8.68



Table 11
Soil Vapor Analytical Results
United Pacific #5468
Springfield, Oregon
Page 2 of 2

		Building:	Western Adjacent Building		
		Location:	SV-1	SV-2	DUP-1 (duplicate of SV-2)
		Sample Depth (ft bgs)	5	5	5
		Collection Date:	10/29/24	10/29/24	10/29/24
Analyte	CAS Number	RBCsv - Soil Vapor Volatilization into Indoor Air (Commercial) ⁽¹⁾			
VOCs - EPA Method TO-15 (µg/m3)					
Ethylene dibromide	106-93-4	0.68	<0.0164	<0.0164	<0.0164
Gasoline	86290-81-5	40,000	<236	<236	<236
Heptane	142-82-5	58,000	<2.46	2.46	<2.46
Hexachlorobutadiene	87-68-3	19	<6.4	<6.4	<6.4
Hexane	110-54-3	100,000	<7.05	<7.05	<7.05
Isopropyl Alcohol	67-63-0	29,000	<4.92	8.82	<4.92
m, p-Xylene	179601-23-1	15,000 ⁽²⁾	<17.4	<17.4	<17.4
Methyl isobutyl ketone	108-10-1	440,000	<2.46	2.46	<2.46
Methyl Methacrylate	80-62-6	100,000	<8.19	8.19	<8.19
Methyl t-butyl ether	1634-04-4	1,600	<0.721	0.721	<0.721
Methylene Chloride	75-09-2	41,000	<2.08	3.89	<2.08
Naphthalene	91-20-3	12	0.387	0.611	0.448
o-Xylene	95-47-6	15,000	<8.68	<8.68	<8.68
Styrene	100-42-5	150,000	<2.56	<2.56	<2.56
Tetrachloroethene (PCE)	127-18-4	1,600	<13.6	<13.6	<13.6
Tetrahydrofuran	109-99-9	290,000	<1.77	<1.77	<1.77
Toluene	108-88-3	730,000	12.3	11.9	13.5
Toluene, Alpha-Chloro-	100-44-7	8.3	<3.11	<3.11	<3.11
Trans-1,2-Dichloroethene	156-60-5	5,800	<0.793	<0.793	<0.793
Trans-1,3-Dichloropropene	10061-02-6	--	<2.72	<2.72	<2.72
Trichloroethene	79-01-6	100	<0.215	<0.215	<0.215
Vinyl Acetate	108-05-4	29,000	<2.11	<2.11	<2.11
Vinyl Chloride	75-01-4	93	<0.511	<0.511	<0.511
Major Gases - EPA Method 3C (%)					
Carbon Dioxide	124-38-9	--	1.54	2.69	2.54
Carbon Monoxide	630-08-0	--	<0.0750	<0.0750	<0.0750
Methane	74-82-8	--	<0.0750	<0.0750	<0.0750
Nitrogen	7727-37-9	--	73.9	73.5	73.8
Oxygen	7782-44-7	--	24.5	23.8	23.7
Hydrogen	1333-74-0	--	<0.0750	<0.0750	<0.0750
Helium - GC/TCD (%)					
Helium	7440-59-7	--	<0.300	<0.300	<0.300
Notes:					
BOLD = Detections are in bold font					
(1) = OQED Table 1: Chronic and Acute Vapor Intrusion Risk-Based Concentraions - March 2024; chronic values cited					
(2) = xylenes, m- & p- are listed separately on RBC table; each with RBC of 15,000 µg/m ³					
< = not detected at or above stated laboratory reporting limit (RL)					
-- = CAS Number not listed in RBC Table 1					
µg/m ³ = micrograms per cubic meter					
% = percent					
CFC-11 = Trichloroflouromethane					
CFC-12 = Dichlorodiflouromethane					
EDB = 1,2-Dibromoethane					
EPA = Environmental Protection Agency					
ft bgs = feet blow ground surface					
GC/TCD = gas chromatography/thermal conductivity detector					
NV = not volatile					
NITI = no inhalation toxicity information					
OQED = Oregon Department of Environmental Quality					
RBC = State of Oregon Department of Environmental Quality Risk-Based Concentration					
RBCsv = risk-based concentration for soil vapor volatilization to indoor air					
VOCs = volatile organic compounds					



CHARTS

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

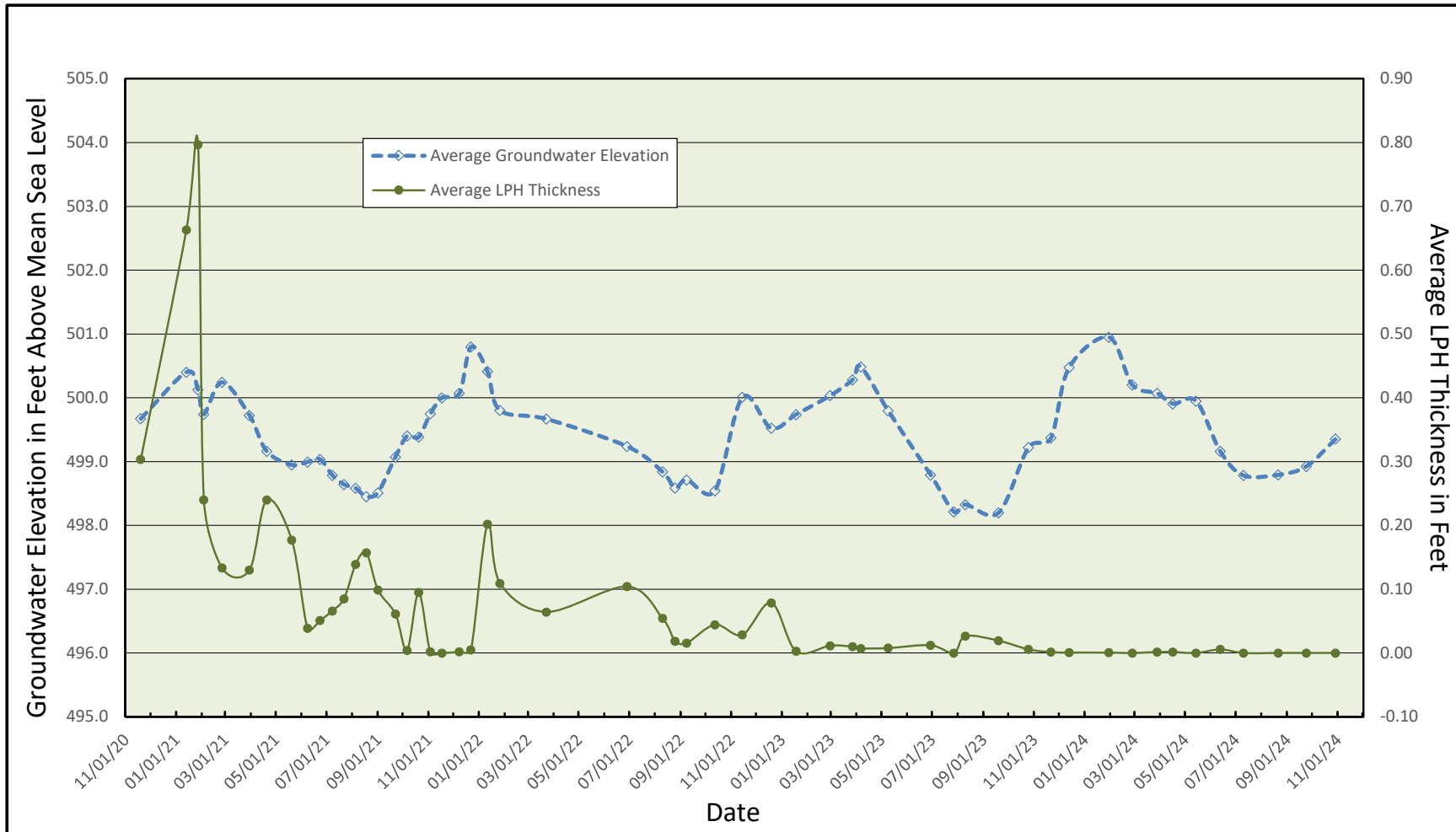


Chart 2
TPH-Gx Concentration Trends
United Pacific #5468
Springfield, Oregon

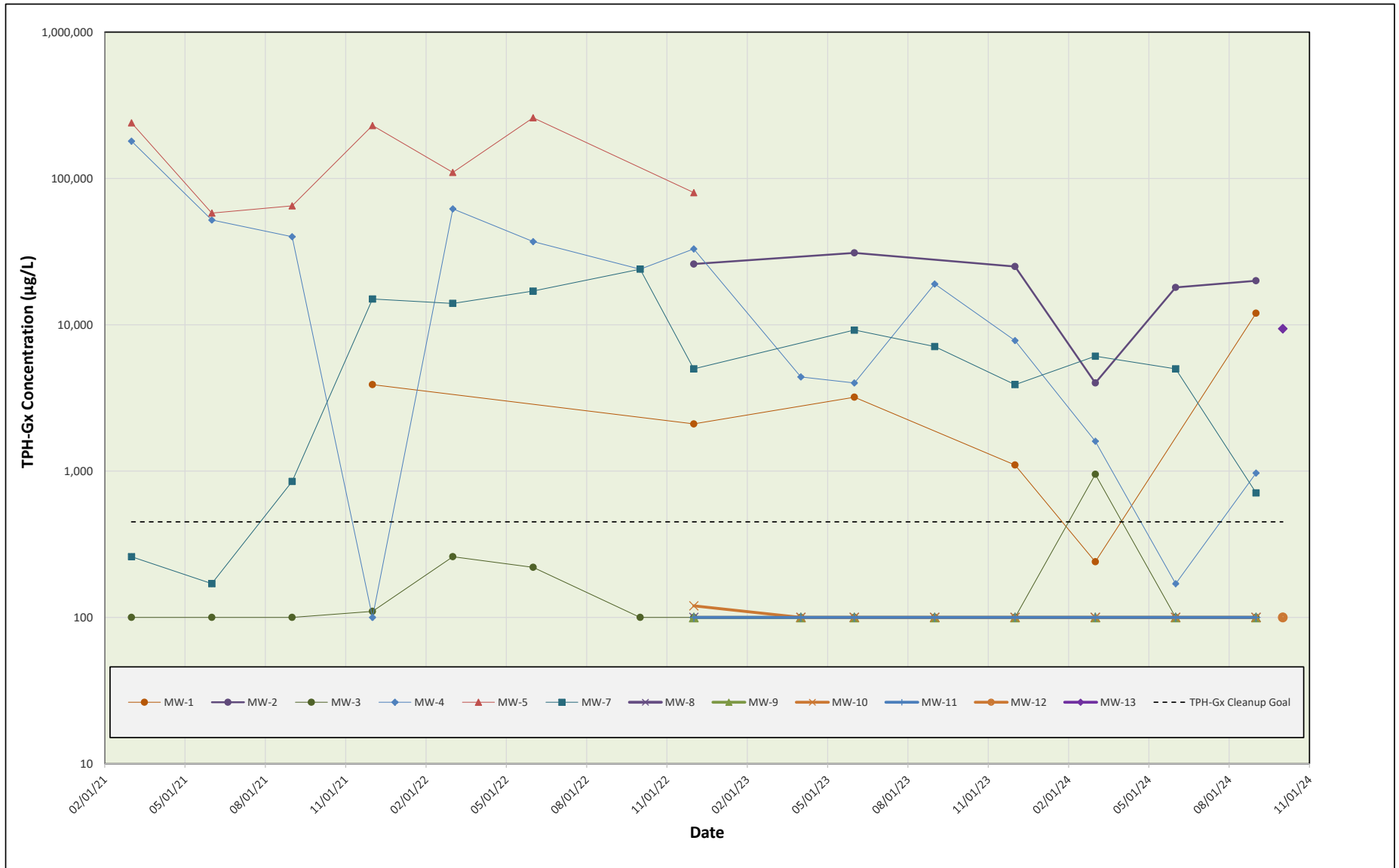
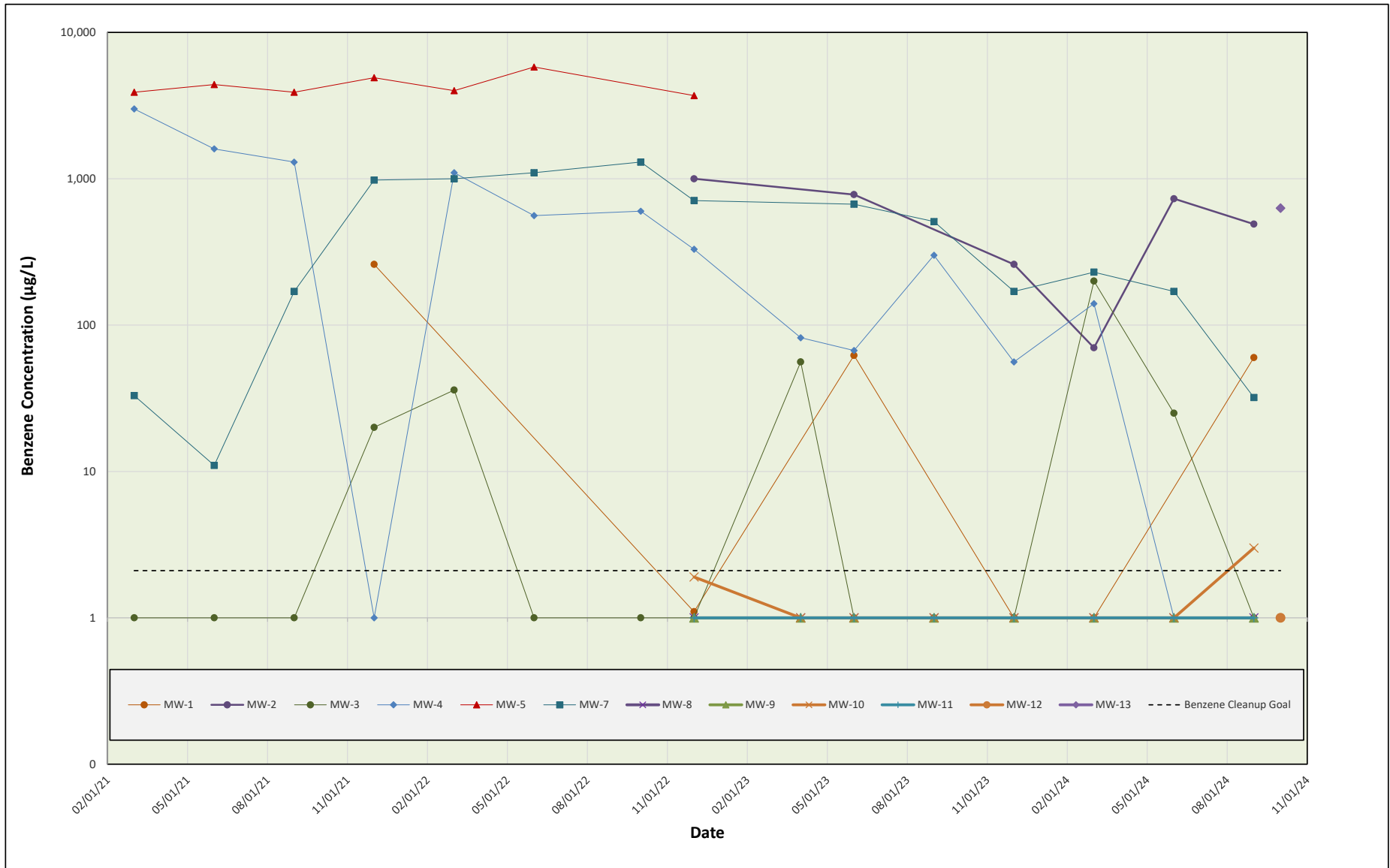


Chart 3
Benzene Concentration Trends
United Pacific #5468
Springfield, Oregon



APPENDIX A

HASP SIGNATURE PAGE

14.0 ACKNOWLEDGMENT AND UNDERSTANDING OF PLAN

This health & safety plan was prepared by the undersigned, having successfully completed OSHA standard 29 CFR 1910.120 40-hour hazardous materials health & safety training.

Site Health & Safety Officer: _____
Kris Kern

Project Manager: _____
Laura Skow
Laura B. Skow

Senior Manager: _____
Dane Nygaard
Dane Nygaard

I UNDERSTAND AND AGREE TO THE ABOVE PLAN

	Name & Company	Date
Contractors:	<i>SEAN ADAMS</i>	<i>10-3-24</i>
	<i>Dwaine Mitten</i>	<i>10-3-24</i>
	<i>MICHELLE HANSEN</i>	<i>10-3-24</i>

Geologist/Field Technicians: _____
[Signature] *10/3/24*

Other: _____



APPENDIX B

ONE CALL TICKET #24275748

Laura Skow

From: or@occinc.com
Sent: Wednesday, September 25, 2024 11:52 AM
To: Laura Skow
Subject: [External] - Ticket: 24275748

You don't often get email from or@occinc.com. [Learn why this is important](#)

OREGON UTILITY NOTIFICATION CENTER

DO NOT REPLY TO THIS EMAIL

This ticket is valid for 45 calendar days following the date of the notice. The expiration date and time is 11/10/24 at 12:00 AM.

Oregon Ticket No:	24275748	2 FULL BUSINESS DAYS		
Transmit Date:	9/25/24	Time:	11:52 AM	
Original Call Date:	9/25/24	Time:	11:44 AM	Type: CALL
Work to Begin Date:	9/28/24	Time:	12:00 AM	

Caller Information

Company:	MONTROSE ENVIRONMENTAL	Type:	CONTRACTOR
		Type of Excavator:	CONTRACTOR
Contact Name:	LAURA SKOW	Phone:	(714) 919-6533
Alt. Contact:	CELL	Phone:	(714) 743-7855
Best Time:		Fax:	
Address:	1631 E SAINT ANDREW PLACE; SANTA ANA, CA 92705		
Caller Email:	lskow@montrose-env.com		

Dig Site Information

Type of Work:	MONITOR WELL INSTALL
Directional Drilling:	NO
Type(s) of Excavation Equipment:	DRILLING
Work Being Done For:	UNITED PACIFIC

Dig Site Location

County:	LANE	State:	OR
Place:	SPRINGFIELD		
Address / Street:	5720 MAIN ST		
Nearest Intersection:	57TH ST		

Location of Work:

EXCAVATION SITE IS ON THE N SIDE OF THE ROAD. MARK IN THE PARKING STALL AND GOING ALONG THE DRIVEWAY PATH GOING 100FT W INTO THE NEIGHBORING PROPERTY AT THE ABV ADD

Remarks:

AREA MARKED IN WHITE.

: Work Order Number:

: Permit Number:

: Expected Duration of Project 45 Days:

Map Twp: 17S **Rng:** 2W **Sect-Qtr:** 34-SW,33-SE

Excavation Coordinates for # Polygons: 1

Poly 1: NW Lat: 44.0463534 **Lon:** -122.9298696 **SE Lat:** 44.0455183 **Lon:** -122.9281087

Members Notified

District	Company	Marking Concerns	Customer Service	Repair
CCOR01	COMCAST CABLE	(800)778-9140	(800)934-6489	(855)537-6296
COSF01	CITY OF SPRINGFIELD	(541)726-3761	(541)726-3761	(541)726-3761
MTRMED02	ZAYO FNA ABOVENET	(800)961-6500	(443)403-2023	(801)364-1063
NWN01	NW NATURAL	(971)277-4474	(503)220-2415	(800)882-3377
QLNOR01	CTLQL-CENTURYLINK	(800)778-9140	(800)283-4237	(800)573-1311
SUB01	SPRINGFIELD UTIL BRD	(541)726-2395	(541)726-2395	(541)726-2395

Excavator Responsibilities

- * Please click on the following link to verify and confirm that the area covered represents the correct and complete work site area.
[Link To Map for C_EMAIL](#)

- * If the area covered is incomplete or inaccurate, it is your responsibility to notify the center immediately to update and correct the locate. Failure to do so could result in a delay or an incomplete utility locate.

Most operators will locate all of the facilities that they own on your property including service lines up to their meter, meter base or to the connection point. For anything not marked by the utilities you would need to contact a private locator.

- * Because utilities have 2 business days to respond to this request, you may see multiple locators responding at different times

- * Underground facilities shall be marked in accordance with the following designated color code: (As per OAR 952-001-0070 (7))
 - RED - Electric power lines, cables or conduit, and lighting cables
 - YELLOW - Gas, oil, steam, petroleum, or gaseous materials
 - ORANGE - Communications, alarm or signal lines, cables or conduits and fiber
 - BLUE - Potable Water
 - GREEN - Sewers, drainage facilities or other drain lines
 - WHITE - Pre-marking of the outer limits of the proposed excavation or marking the centerline and width of proposed lineal installations of buried facilities
 - PINK - Temporary Survey Markings
 - PURPLE - Slurry, irrigation and reclaimed water

- * Questions about what happens next? Click the link below to find out more about Oregon 811 and digging in Oregon:
[Dig Safely Oregon](#)

- * You can now download the Oregon APP for free through the APP Store for iOS, or on Google Play for Android! The Oregon APP also has additional information regarding Oregon 811.

Did you know that you can submit your tickets online?
 - Eliminate hold times.
 - Immediately receive a ticket number.
 - View, Search, Update, Duplicate, and Print tickets.Click the link below to Register for ITIC and start submitting your tickets on line today!
[Oregon ITIC](#)

- * To review this ticket, see the full status history and any future status updates, visit or.itic.occinc.com

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APPENDIX C

BORING LOGS

SOIL BORING LOG

Boring No.: MW-12







Sheet 1 of 1

Client	United Pacific #5468	Date	10/3/2024
Address	5720 Main Street	Driller	Yellow Jacket
	Springfield, OR 97478	rig type:	Terra Sonic 150cc
Project No.	#027409	Drilling Foreman	Mikey
Logged By:	KAK	Method	Sonic Rig
		hole diam.:	12"

Well Pack	sand: 21 ft bgs to 4 ft bgs., #10/20	Well Construction	casing: 5 ft bgs to 0 ft bgs	screen: 20 ft bgs to 5 ft bgs
	bentonite: 4 ft bgs to 1 ft bgs		casing diam.: 4 in	screen slot: 0.020
	concrete: 1 ft bgs to 0 ft bgs	Depth to GW:	n/a	

Total Depth of Boring 21 ft bgs

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (ppmV)
Type	No.		Time	Recov.					
						1	10" asphalt/concrete Bentonite/sand fill to 5'		
						2			
						3			
						4			
Soil	MW-12-5	-	0900	100%		x 5	GC Clayey gravel with silt (GC); dark yellowish brown (10YR, 4/4); moist; large 4" gravel to small 1/4" gravels; poorly sorted; ~30% clay; clay is low to medium plasticity; no odor; no stain.	0.0	
						6			
						7			
						8			
						9			
Soil	MW-12-10	-	0905	100%		x 10	GM Silty gravel (GM); dark grayish brown (10YR, 4/2); very moist; ~25% silt and fine to medium sand; poorly sorted; no odor; no stain.	0.0	
						11			
						12			
						13			
						14			
Soil	MW-12-15	-	0910	100%		x 15	GM Gravel with silt (GM); dark grayish brown (10YR, 4/2); wet (saturated); ~15% silt; fine sand; poorly sorted; no odor; no stain.	0.0	
						16			
						17			
						18			
						19			
Soil	MW-12-20	-	0915	100%		x 20	GW Gravel (GW); dark yellowish brown (10YR, 4/4); wet; poorly sorted; gravels from 1/4" to cobbles 6" or greater; gravels/cobbles are subround to round; volcanic/igneous rocks; <5% silt <1% fine sand; no odor; no stain.	0.0	
						21			

 Concrete	 Blank Casing
 Cement-Bentonite Grout	 Screened Casing
 Bentonite Chips	
 #3 Sand	

Comments:
 TD = 21'
 Well Tag # L155080
 Completed with 12-inch flush monument



SOIL BORING LOG

Boring No.: MW-13







Sheet 1 of 1

Client	United Pacific #5468	Date	10/3/2024
Address	5720 Main Street Springfield, OR 97478	Driller	Yellow Jacket
Project No.	#027409	Drilling Foreman	Mikey
Logged By:	KAK	Method	Sonic Rig
		rig type:	Terra Sonic 150cc
		hole diam.:	12"

Well Pack	sand: 21 ft bgs to 4 ft bgs, #10/20	Well Construction	casing: 5 ft bgs to 0 ft bgs	screen: 20 ft bgs to 5 ft bgs
	bentonite: 4 ft bgs to 1 ft bgs		casing diam.: 4 in	screen slot: 0.020
	concrete: 1 ft bgs to 0 ft bgs	Depth to GW:	n/a	

Total Depth of Boring 21 ft bgs

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (ppmV)
Type	No.		Time	Recov.					
						1	1.5" Asphalt		
						2			
						3			
						4			
Soil	MW-13-5	-	1325	100%		x 5	GM	Silty gravel (GM); dark yellowish brown (10YR, 4/4); moist; ~20% silt; poorly sorted; sub-rounded gravels; primarily 1.5" gravels; no odor; no stain.	0.1
						6			
						7			
						8			
						9			
Soil	MW-13-10	-	1330	100%		x 10	GW	Sandy gravel (GW); brown (10YR, 4/3); wet; ~25% medium to v. coarse sands; poorly sorted; sub round gravels up to 2"; no odor; no stain.	0.0
						11			
						12			
						13			
						14			
Soil	MW-13-15	-	1340	100%		x 15	GW	Sandy gravel (GW); very dark greyish brown (10YR, 3/2); wet (saturated); ~35% sand; primarily medium to coarse sand; sub rounded gravels up to 2"; poorly sorted; cobbles up to 5"; no odor; no stain.	0.0
						16			
						17			
						18			
						19			
Soil	MW-13-20	-	1345	100%		x 20	SW	Gravelly sand (SW); dark yellowish brown (10YR, 4/4); wet (saturated); ~45% gravel; cobbles up to 5"; sub rounded; sand is poorly sorted; primarily medium to very coarse; no odor; no stain.	0.0
	MW-13-20 (Dup)		1750			21			

 Concrete	 Blank Casing
 Cement-Bentonite Grout	 Screened Casing
 Bentonite Chips	
 Sand	

Comments:
 TD = 21'
 Well Tag # L155081
 Completed with 12-inch flush monument



SOIL BORING LOG

Boring No.: SV-1

Sheet 1 of 1

Client <u>United Pacific #5468</u>	Date <u>10/3/2024</u>	
Address <u>5720 Main Street</u>	Driller <u>Yellow Jacket</u>	rig type: <u>Hand Auger</u>
<u>Springfield, OR 97478</u>	Drilling Foreman <u>Mikey</u>	
Project No. <u>#027409</u>	Method <u>Hand Auger</u>	hole diam.: <u>~3"</u>
Logged By: <u>KAK</u>		
Well Pack <u>sand: 4.5 ft bgs to 5.5 ft bgs, #10/20</u>	Well Construction <u>casing: 0.25" Tubing</u>	<u>screen: 6" Probe Screen</u>
<u>bentonite: 4.5 ft bgs to 1.5 ft bgs</u>	<u>casing diam.: 0.25" Tubing</u>	<u>screen slot: 6" Probe Screen</u>
<u>concrete: 1.5 ft bgs to 0 ft bgs</u>	Depth to GW: <u>n/a</u>	

Total Depth of Boring 5.5 ft bgs

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (ppmV)
Type	No.		Time	Recov.					
						1	* Soil classification; color (color #); dry/moist/wet; density/consistency; modifiers (%s/roundness/odor/stain). ~2" asphalt ~2' base ~3' Silty gravel; fine gravels to large gravels at 5.5"		
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Concrete	Blank Casing
Cement-Bentonite Grout	Screened Casing
Bentonite Chips	
Sand	

Comments:
 TD = 5.5"
 Completed with 8-inch flush monument



SOIL BORING LOG

Boring No.: SV-2

Sheet 1 of

Client	United Pacific #5468	Date	10/3/2024
Address	5720 Main Street	Driller	Yellow Jacket
	Springfield, OR 97478	Drilling Foreman	Mikey
Project No.	#027409	Method	Hand Auger
Logged By:	KAK	hole diam.:	~3"
Well Pack	sand: 4 ft bgs to 5 ft bgs, #10/20	Well Construction	casing: 0.25" Tubing
	bentonite: 4 ft bgs to 1 ft bgs		screen: 6" Probe Screen
	concrete: 1 ft bgs to 0 ft bgs		casing diam.: 0.25" Tubing
			screen slot: 6" Probe Screen
		Depth to GW:	n/a

Total Depth of Boring 5 ft bgs

Sample		Blow Count	Sample		Well Construct.	Depth Scale	LITHO COLUMN	Descriptions of Materials and Conditions	PID (ppmV)
Type	No.		Time	Recov.					
						1		~2" asphalt	
						2		~2' base	
						3		~3' Silty gravel; fine gravels to large gravels at 5"	
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

	Concrete		Blank Casing
	Cement-Bentonite Grout		Screened Casing
	Bentonite Chips		
	Sand		

Comments:
 TD = 5"
 Completed with 8-inch flush monument



APPENDIX D

WELL DEVELOPMENT FORMS

APPENDIX E

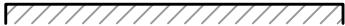
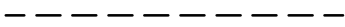


MONITORING WELL SURVEY REPORT

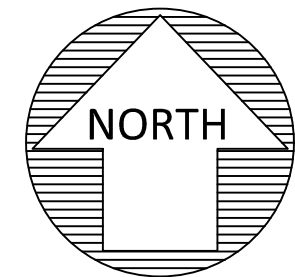
WELL LOCATIONS - 5720 MAIN STREET, SPRINGFIELD, OR						
MONITORING WELL	NORTH EDGE PVC EL.	RIM OF OUTER CASE EL.	NORTHING (INT. FT)	EASTING (INT. FT)	(N) LATITUDE (DMS)	(W) LONGITUDE (DMS)
MW-EW-1R	510.86'	511.09'	876427.685	4282687.040	44°02'45.52159"	122°55'44.02316"
MW-EW-2R	510.91'	511.37'	876407.815	4282705.909	44°02'45.33086"	122°55'43.75704"
MW-EW-4	510.67'	511.11'	876431.102	4282682.344	44°02'45.55398"	122°55'44.08878"
MW 8	509.75'	510.41'	876569.684	4282605.543	44°02'46.89993"	122°55'45.19485"
MW 9	509.89'	510.17'	876454.782	4282591.175	44°02'45.76161"	122°55'45.34585"
MW 10	511.13'	511.53'	876538.811	4282697.297	44°02'46.62146"	122°55'43.92691"
MW 11	511.69'	511.98'	876384.635	4282804.544	44°02'45.13030"	122°55'42.39800"
MW 12	512.61'	512.98'	876433.716	4282806.153	44°02'45.61528"	122°55'42.39548"
MW 13	509.71'	510.28'	876531.997	4282645.939	44°02'46.52966"	122°55'44.62664"

HORIZONTAL DATUM - OREGON STATE PLANE COORDINATE SYSTEM (NAD83/2011) SOUTH ZONE
 VERTICAL DATUM - NAVD88, BASED ON NGS BENCHMARK QE 0920 WITH A PUBLISHED ELEVATION OF 462.79'

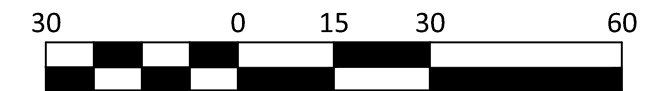


LEGEND:

-  BUILDING OUTLINE
-  BUILDING OVERHANG
-  CONCRETE SURFACE
-  MONITORING WELL



SCALE



1 INCH = 30 FEET

REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JUNE 30, 1997
TROY T. TETSUKA
2841
RENEWAL 6/30/2026

kpff
 111 SW Fifth Ave., Suite 2400
 Portland, OR 97204
 O: 503.227.3251
 F: 503.224.4681
www.kpff.com

SURVEYED BY:	JH/SW
DRAWN BY:	MLP
CHECKED BY:	TTT
PROJECT NO.:	2000477
FILE:	WELL-LOCATIONS.DWG

WELL LOCATION SURVEY
5720 MAIN STREET
 MONTROSE ENVIRONMENTAL
 CITY OF SPRINGFIELD / LANE COUNTY / OREGON

DATE:	19 NOVEMBER 2024
CONTOUR INTERVAL:	N/A
SHEET NO.	1 OF 1

APPENDIX F

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Friday, October 18, 2024
Laura Skow
Montrose Environmental
1631 E Saint Andrew Place
Santa Ana, CA 92705

RE: A4J1051 - United Pacific #5468 - 027409

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4J1051, which was received by the laboratory on 10/4/2024 at 12:08:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	1.3	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report. All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12-5'	A4J1051-01	Soil	10/03/24 09:00	10/04/24 12:08
MW-12-10'	A4J1051-02	Soil	10/03/24 09:05	10/04/24 12:08
MW-12-15'	A4J1051-03	Soil	10/03/24 09:10	10/04/24 12:08
MW-12-20'	A4J1051-04	Soil	10/03/24 09:15	10/04/24 12:08
MW-13-5'	A4J1051-05	Soil	10/03/24 13:25	10/04/24 12:08
MW-13-10'	A4J1051-06	Soil	10/03/24 13:30	10/04/24 12:08
MW-13-15'	A4J1051-07	Soil	10/03/24 13:40	10/04/24 12:08
MW-13-20'	A4J1051-08	Soil	10/03/24 13:45	10/04/24 12:08
MW-13-20' (DUP)	A4J1051-09	Soil	10/03/24 17:50	10/04/24 12:08
Equipment Blank	A4J1051-10	Water	10/03/24 10:00	10/04/24 12:08
Trip Blank	A4J1051-11	Water	10/03/24 12:08	10/04/24 12:08
Groundwater Drum	A4J1051-12	Water	10/04/24 10:05	10/04/24 12:08

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-5' (A4J1051-01)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	4.70	mg/kg dry	50	10/07/24 14:24	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 14:24</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 14:24</i>	<i>NWTPH-Gx (MS)</i>	
MW-12-10' (A4J1051-02)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	4.39	mg/kg dry	50	10/07/24 14:51	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 14:51</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 14:51</i>	<i>NWTPH-Gx (MS)</i>	
MW-12-15' (A4J1051-03)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	4.50	mg/kg dry	50	10/07/24 15:17	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 104 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 15:17</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 15:17</i>	<i>NWTPH-Gx (MS)</i>	
MW-12-20' (A4J1051-04)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	13.7	mg/kg dry	50	10/07/24 15:44	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 105 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 15:44</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 15:44</i>	<i>NWTPH-Gx (MS)</i>	
MW-13-5' (A4J1051-05)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	4.60	mg/kg dry	50	10/07/24 16:10	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 16:10</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 16:10</i>	<i>NWTPH-Gx (MS)</i>	
MW-13-10' (A4J1051-06)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	4.73	mg/kg dry	50	10/07/24 16:37	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 16:37</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 16:37</i>	<i>NWTPH-Gx (MS)</i>	
MW-13-15' (A4J1051-07)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	5.17	mg/kg dry	50	10/07/24 17:30	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 104 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 17:30</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 17:30</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-20' (A4J1051-08)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	5.29	mg/kg dry	50	10/07/24 17:56	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 17:56</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 17:56</i>	<i>NWTPH-Gx (MS)</i>	
MW-13-20' (DUP) (A4J1051-09)				Matrix: Soil		Batch: 24J0259		
Gasoline Range Organics	ND	---	5.50	mg/kg dry	50	10/07/24 18:23	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 18:23</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 18:23</i>	<i>NWTPH-Gx (MS)</i>	
Equipment Blank (A4J1051-10)				Matrix: Water		Batch: 24J0247		
Gasoline Range Organics	ND	---	100	ug/L	1	10/07/24 13:13	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 13:13</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 13:13</i>	<i>NWTPH-Gx (MS)</i>	
Trip Blank (A4J1051-11)				Matrix: Water		Batch: 24J0247		
Gasoline Range Organics	ND	---	100	ug/L	1	10/07/24 12:51	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 12:51</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 12:51</i>	<i>NWTPH-Gx (MS)</i>	
Groundwater Drum (A4J1051-12)				Matrix: Water		Batch: 24J0247		
Gasoline Range Organics	4080	---	1000	ug/L	10	10/07/24 19:19	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>10/07/24 19:19</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>10/07/24 19:19</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-5' (A4J1051-01)			Matrix: Soil		Batch: 24J0259			
Acetone	ND	---	0.940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Acrylonitrile	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Benzene	ND	---	0.00940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Bromobenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Bromochloromethane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Bromodichloromethane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Bromoform	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Bromomethane	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
2-Butanone (MEK)	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
n-Butylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
sec-Butylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
tert-Butylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Carbon disulfide	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Carbon tetrachloride	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Chlorobenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Chloroethane	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Chloroform	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Chloromethane	ND	---	0.235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
2-Chlorotoluene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
4-Chlorotoluene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Dibromochloromethane	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Dibromomethane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-5' (A4J1051-01)				Matrix: Soil		Batch: 24J0259		
cis-1,3-Dichloropropene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Ethylbenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Hexachlorobutadiene	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
2-Hexanone	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Isopropylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Methylene chloride	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Naphthalene	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
n-Propylbenzene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Styrene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Toluene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0940	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
Vinyl chloride	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
m,p-Xylene	ND	---	0.0470	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
o-Xylene	ND	---	0.0235	mg/kg dry	50	10/07/24 14:24	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 14:24</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 14:24</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 14:24</i>	<i>5035A/8260D</i>	

MW-12-10' (A4J1051-02)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	0.878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Acrylonitrile	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Benzene	ND	---	0.00878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-10' (A4J1051-02)				Matrix: Soil		Batch: 24J0259		
Bromobenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Bromochloromethane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Bromodichloromethane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Bromoform	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Bromomethane	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
2-Butanone (MEK)	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
n-Butylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
sec-Butylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
tert-Butylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Carbon disulfide	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Carbon tetrachloride	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Chlorobenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Chloroethane	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Chloroform	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Chloromethane	ND	---	0.219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
2-Chlorotoluene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
4-Chlorotoluene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Dibromochloromethane	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Dibromomethane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Ethylbenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-10' (A4J1051-02)				Matrix: Soil		Batch: 24J0259		
Hexachlorobutadiene	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
2-Hexanone	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Isopropylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Methylene chloride	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Naphthalene	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
n-Propylbenzene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Styrene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Toluene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0878	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
Vinyl chloride	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
m,p-Xylene	ND	---	0.0439	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
o-Xylene	ND	---	0.0219	mg/kg dry	50	10/07/24 14:51	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 14:51</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 14:51</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 14:51</i>	<i>5035A/8260D</i>	

MW-12-15' (A4J1051-03)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	0.900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Acrylonitrile	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Benzene	ND	---	0.00900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Bromobenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Bromochloromethane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Bromodichloromethane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-15' (A4J1051-03)			Matrix: Soil		Batch: 24J0259			
Bromoform	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Bromomethane	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
2-Butanone (MEK)	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
n-Butylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
sec-Butylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
tert-Butylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Carbon disulfide	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Carbon tetrachloride	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Chlorobenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Chloroethane	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Chloroform	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Chloromethane	ND	---	0.225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
2-Chlorotoluene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
4-Chlorotoluene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Dibromochloromethane	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Dibromomethane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Ethylbenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Hexachlorobutadiene	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
2-Hexanone	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Isopropylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-15' (A4J1051-03)				Matrix: Soil		Batch: 24J0259		
4-Isopropyltoluene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Methylene chloride	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Naphthalene	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
n-Propylbenzene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Styrene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Toluene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0900	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
Vinyl chloride	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
m,p-Xylene	ND	---	0.0450	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
o-Xylene	ND	---	0.0225	mg/kg dry	50	10/07/24 15:17	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 15:17</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 15:17</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 15:17</i>	<i>5035A/8260D</i>	

MW-12-20' (A4J1051-04)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	2.73	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Acrylonitrile	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Benzene	ND	---	0.0273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Bromobenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Bromochloromethane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Bromodichloromethane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Bromoform	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Bromomethane	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
2-Butanone (MEK)	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-20' (A4J1051-04)				Matrix: Soil		Batch: 24J0259		
n-Butylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
sec-Butylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
tert-Butylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Carbon disulfide	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Carbon tetrachloride	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Chlorobenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Chloroethane	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Chloroform	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Chloromethane	ND	---	0.683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
2-Chlorotoluene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
4-Chlorotoluene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Dibromochloromethane	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Dibromomethane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,3-Dichloropropane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
2,2-Dichloropropane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1-Dichloropropene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Ethylbenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Hexachlorobutadiene	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
2-Hexanone	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Isopropylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
4-Isopropyltoluene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Methylene chloride	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	1.37	mg/kg dry	50	10/07/24 15:44	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-20' (A4J1051-04)				Matrix: Soil		Batch: 24J0259		
Methyl tert-butyl ether (MTBE)	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Naphthalene	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
n-Propylbenzene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Styrene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Toluene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Trichlorofluoromethane	ND	---	0.273	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
Vinyl chloride	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
m,p-Xylene	ND	---	0.137	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
o-Xylene	ND	---	0.0683	mg/kg dry	50	10/07/24 15:44	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 15:44</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 15:44</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 15:44</i>	<i>5035A/8260D</i>	

MW-13-5' (A4J1051-05)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	0.920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Acrylonitrile	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Benzene	ND	---	0.00920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Bromobenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Bromochloromethane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Bromodichloromethane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Bromoform	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Bromomethane	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
2-Butanone (MEK)	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
n-Butylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
sec-Butylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
tert-Butylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-5' (A4J1051-05)				Matrix: Soil		Batch: 24J0259		
Carbon disulfide	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Carbon tetrachloride	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Chlorobenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Chloroethane	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Chloroform	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Chloromethane	ND	---	0.230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
2-Chlorotoluene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
4-Chlorotoluene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Dibromochloromethane	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Dibromomethane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Ethylbenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Hexachlorobutadiene	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
2-Hexanone	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Isopropylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Methylene chloride	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Naphthalene	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
n-Propylbenzene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-5' (A4J1051-05)				Matrix: Soil		Batch: 24J0259		
Styrene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Toluene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0920	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
Vinyl chloride	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
m,p-Xylene	ND	---	0.0460	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
o-Xylene	ND	---	0.0230	mg/kg dry	50	10/07/24 16:10	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 16:10</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 16:10</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 16:10</i>	<i>5035A/8260D</i>	
MW-13-10' (A4J1051-06)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	0.946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Acrylonitrile	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Benzene	ND	---	0.00946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Bromobenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Bromochloromethane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Bromodichloromethane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Bromoform	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Bromomethane	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
2-Butanone (MEK)	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
n-Butylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
sec-Butylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
tert-Butylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Carbon disulfide	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Carbon tetrachloride	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Chlorobenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-10' (A4J1051-06)				Matrix: Soil		Batch: 24J0259		
Chloroethane	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Chloroform	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Chloromethane	ND	---	0.236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
2-Chlorotoluene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
4-Chlorotoluene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Dibromochloromethane	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Dibromomethane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Ethylbenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Hexachlorobutadiene	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
2-Hexanone	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Isopropylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Methylene chloride	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Naphthalene	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
n-Propylbenzene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Styrene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-10' (A4J1051-06)				Matrix: Soil		Batch: 24J0259		
Tetrachloroethene (PCE)	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Toluene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0946	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
Vinyl chloride	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
m,p-Xylene	ND	---	0.0473	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
o-Xylene	ND	---	0.0236	mg/kg dry	50	10/07/24 16:37	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 97 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 16:37</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 16:37</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 16:37</i>	<i>5035A/8260D</i>	

MW-13-15' (A4J1051-07)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	1.03	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Acrylonitrile	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Benzene	ND	---	0.0103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Bromobenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Bromochloromethane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Bromodichloromethane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Bromoform	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Bromomethane	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
2-Butanone (MEK)	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
n-Butylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
sec-Butylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
tert-Butylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Carbon disulfide	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Carbon tetrachloride	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Chlorobenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Chloroethane	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Chloroform	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Chloromethane	ND	---	0.258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-15' (A4J1051-07)			Matrix: Soil		Batch: 24J0259			
2-Chlorotoluene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
4-Chlorotoluene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Dibromochloromethane	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Dibromomethane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Ethylbenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Hexachlorobutadiene	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
2-Hexanone	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Isopropylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Methylene chloride	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Naphthalene	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
n-Propylbenzene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Styrene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Toluene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-15' (A4J1051-07)			Matrix: Soil		Batch: 24J0259			
1,2,4-Trichlorobenzene	ND	---	0.258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Trichlorofluoromethane	ND	---	0.103	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
Vinyl chloride	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
m,p-Xylene	ND	---	0.0517	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
o-Xylene	ND	---	0.0258	mg/kg dry	50	10/07/24 17:30	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 17:30</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 17:30</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 17:30</i>	<i>5035A/8260D</i>	
MW-13-20' (A4J1051-08)			Matrix: Soil		Batch: 24J0259			
Acetone	ND	---	1.06	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Acrylonitrile	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Benzene	ND	---	0.0106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Bromobenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Bromochloromethane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Bromodichloromethane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Bromoform	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Bromomethane	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
2-Butanone (MEK)	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
n-Butylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
sec-Butylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
tert-Butylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Carbon disulfide	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Carbon tetrachloride	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Chlorobenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Chloroethane	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Chloroform	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Chloromethane	ND	---	0.265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
2-Chlorotoluene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
4-Chlorotoluene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Dibromochloromethane	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-20' (A4J1051-08)				Matrix: Soil		Batch: 24J0259		
1,2-Dibromo-3-chloropropane	ND	---	0.265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Dibromomethane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Ethylbenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Hexachlorobutadiene	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
2-Hexanone	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Isopropylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Methylene chloride	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Naphthalene	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
n-Propylbenzene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Styrene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Toluene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-20' (A4J1051-08)				Matrix: Soil		Batch: 24J0259		
Trichloroethene (TCE)	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Trichlorofluoromethane	ND	---	0.106	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
Vinyl chloride	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
m,p-Xylene	ND	---	0.0529	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
o-Xylene	ND	---	0.0265	mg/kg dry	50	10/07/24 17:56	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 17:56</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 17:56</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 17:56</i>	<i>5035A/8260D</i>	
MW-13-20' (DUP) (A4J1051-09)				Matrix: Soil		Batch: 24J0259		
Acetone	ND	---	1.10	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Acrylonitrile	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Benzene	ND	---	0.0110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Bromobenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Bromochloromethane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Bromodichloromethane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Bromoform	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Bromomethane	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
2-Butanone (MEK)	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
n-Butylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
sec-Butylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
tert-Butylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Carbon disulfide	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Carbon tetrachloride	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Chlorobenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Chloroethane	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Chloroform	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Chloromethane	ND	---	0.275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
2-Chlorotoluene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
4-Chlorotoluene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Dibromochloromethane	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Dibromomethane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-20' (DUP) (A4J1051-09)				Matrix: Soil		Batch: 24J0259		
1,2-Dichlorobenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Ethylbenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Hexachlorobutadiene	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
2-Hexanone	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Isopropylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Methylene chloride	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Naphthalene	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
n-Propylbenzene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Styrene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Toluene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Trichlorofluoromethane	ND	---	0.110	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-20' (DUP) (A4J1051-09)			Matrix: Soil		Batch: 24J0259			
1,2,4-Trimethylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
Vinyl chloride	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
m,p-Xylene	ND	---	0.0550	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
o-Xylene	ND	---	0.0275	mg/kg dry	50	10/07/24 18:23	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 18:23</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 18:23</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>79-120 %</i>	<i>1</i>	<i>10/07/24 18:23</i>	<i>5035A/8260D</i>	
Equipment Blank (A4J1051-10)			Matrix: Water		Batch: 24J0247			
Acetone	ND	---	20.0	ug/L	1	10/07/24 13:13	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/07/24 13:13	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/07/24 13:13	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/07/24 13:13	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equipment Blank (A4J1051-10)				Matrix: Water		Batch: 24J0247		
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/07/24 13:13	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/07/24 13:13	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	10/07/24 13:13	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	10/07/24 13:13	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/07/24 13:13	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	10/07/24 13:13	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equipment Blank (A4J1051-10)				Matrix: Water		Batch: 24J0247		
m,p-Xylene	ND	---	1.00	ug/L	1	10/07/24 13:13	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/07/24 13:13	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/07/24 13:13</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/07/24 13:13</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/07/24 13:13</i>	<i>EPA 8260D</i>
Trip Blank (A4J1051-11)				Matrix: Water		Batch: 24J0247		
Acetone	ND	---	20.0	ug/L	1	10/07/24 12:51	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/07/24 12:51	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/07/24 12:51	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/07/24 12:51	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Trip Blank (A4J1051-11)			Matrix: Water			Batch: 24J0247		
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/07/24 12:51	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/07/24 12:51	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	10/07/24 12:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	10/07/24 12:51	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/07/24 12:51	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	10/07/24 12:51	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	10/07/24 12:51	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/07/24 12:51	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 93 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 12:51</i>	<i>EPA 8260D</i>	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Trip Blank (A4J1051-11)			Matrix: Water			Batch: 24J0247		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/07/24 12:51</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/07/24 12:51</i>	<i>EPA 8260D</i>
Groundwater Drum (A4J1051-12)			Matrix: Water			Batch: 24J0247		
Acetone	ND	---	200	ug/L	10	10/07/24 19:19	EPA 8260D	
Acrylonitrile	ND	---	20.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Benzene	165	---	2.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Bromobenzene	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Bromochloromethane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Bromodichloromethane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Bromoform	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Bromomethane	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
2-Butanone (MEK)	ND	---	100	ug/L	10	10/07/24 19:19	EPA 8260D	
n-Butylbenzene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
sec-Butylbenzene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
tert-Butylbenzene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Carbon disulfide	ND	---	100	ug/L	10	10/07/24 19:19	EPA 8260D	
Carbon tetrachloride	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Chlorobenzene	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Chloroethane	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Chloroform	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Chloromethane	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
2-Chlorotoluene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
4-Chlorotoluene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Dibromochloromethane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Dibromomethane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2-Dichlorobenzene	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,3-Dichlorobenzene	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,4-Dichlorobenzene	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Dichlorodifluoromethane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1-Dichloroethane	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1-Dichloroethene	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Groundwater Drum (A4J1051-12)			Matrix: Water		Batch: 24J0247			
1,2-Dichloropropane	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,3-Dichloropropane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
2,2-Dichloropropane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1-Dichloropropene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Ethylbenzene	77.9	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Hexachlorobutadiene	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
2-Hexanone	ND	---	100	ug/L	10	10/07/24 19:19	EPA 8260D	
Isopropylbenzene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
4-Isopropyltoluene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Methylene chloride	ND	---	100	ug/L	10	10/07/24 19:19	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	100	ug/L	10	10/07/24 19:19	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Naphthalene	ND	---	50.0	ug/L	10	10/07/24 19:19	EPA 8260D	
n-Propylbenzene	9.10	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Styrene	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Toluene	328	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	20.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	20.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1,1-Trichloroethane	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
1,1,2-Trichloroethane	ND	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Trichloroethene (TCE)	ND	---	4.00	ug/L	10	10/07/24 19:19	EPA 8260D	
Trichlorofluoromethane	ND	---	20.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2,3-Trichloropropane	ND	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,2,4-Trimethylbenzene	66.7	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
1,3,5-Trimethylbenzene	17.5	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
Vinyl chloride	ND	---	2.00	ug/L	10	10/07/24 19:19	EPA 8260D	
m,p-Xylene	283	---	10.0	ug/L	10	10/07/24 19:19	EPA 8260D	
o-Xylene	130	---	5.00	ug/L	10	10/07/24 19:19	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 96 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/07/24 19:19</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 19:19</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/07/24 19:19</i>	<i>EPA 8260D</i>	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-5' (A4J1051-01)				Matrix: Soil		Batch: 24J0242		
% Solids	88.0	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-12-10' (A4J1051-02)				Matrix: Soil		Batch: 24J0242		
% Solids	87.2	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-12-15' (A4J1051-03)				Matrix: Soil		Batch: 24J0242		
% Solids	89.0	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-12-20' (A4J1051-04)				Matrix: Soil		Batch: 24J0242		
% Solids	51.9	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-13-5' (A4J1051-05)				Matrix: Soil		Batch: 24J0242		
% Solids	86.6	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-13-10' (A4J1051-06)				Matrix: Soil		Batch: 24J0242		
% Solids	89.4	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-13-15' (A4J1051-07)				Matrix: Soil		Batch: 24J0242		
% Solids	83.0	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-13-20' (A4J1051-08)				Matrix: Soil		Batch: 24J0242		
% Solids	82.7	---	1.00	%	1	10/08/24 05:42	EPA 8000D	
MW-13-20' (DUP) (A4J1051-09)				Matrix: Soil		Batch: 24J0242		
% Solids	79.3	---	1.00	%	1	10/08/24 05:42	EPA 8000D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
Blank (24J0247-BLK1)		Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:54										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
LCS (24J0247-BS2)						Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:33						
NWTPH-Gx (MS)												
Gasoline Range Organics	477	---	100	ug/L	1	500	---	95	80 - 120%	---	---	---
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 24J0259 - EPA 5035A						Soil						
Blank (24J0259-BLK1)		Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:58										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						
LCS (24J0259-BS2)						Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:31						
NWTPH-Gx (MS)												
Gasoline Range Organics	20.0	---	5.00	mg/kg wet	50	25.0	---	80	80 - 120%	---	---	---
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		96 %		50-150 %		"						
Duplicate (24J0259-DUP1)						Prepared: 10/03/24 13:30 Analyzed: 10/07/24 17:03						
QC Source Sample: MW-13-10' (A4J1051-06)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	4.73	mg/kg dry	50	---	ND	---	---	---	30%	---
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		102 %		50-150 %		"						

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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 503-718-2323
 ORELAP ID: OR100062

Montrose Environmental	Project: United Pacific #5468	
1631 E Saint Andrew Place	Project Number: 027409	Report ID:
Santa Ana, CA 92705	Project Manager: Laura Skow	A4J1051 - 10 18 24 1621

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
Blank (24J0247-BLK1)		Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:54										
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
Blank (24J0247-BLK1)	Prepared: 10/07/24 09:47		Analyzed: 10/07/24 11:54									
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Vinyl chloride	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 93 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
Blank (24J0247-BLK1)		Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:54										
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (24J0247-BS1)		Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:11										
EPA 8260D												
Acetone	36.4	---	20.0	ug/L	1	40.0	---	91	80 - 120%	---	---	
Acrylonitrile	18.6	---	2.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
Benzene	18.9	---	0.200	ug/L	1	20.0	---	95	80 - 120%	---	---	
Bromobenzene	18.2	---	0.500	ug/L	1	20.0	---	91	80 - 120%	---	---	
Bromochloromethane	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Bromodichloromethane	20.3	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
Bromoform	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Bromomethane	19.5	---	5.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
2-Butanone (MEK)	38.3	---	10.0	ug/L	1	40.0	---	96	80 - 120%	---	---	
n-Butylbenzene	21.8	---	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
sec-Butylbenzene	22.0	---	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
tert-Butylbenzene	21.5	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Carbon disulfide	20.5	---	10.0	ug/L	1	20.0	---	103	80 - 120%	---	---	
Carbon tetrachloride	21.2	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Chlorobenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Chloroethane	18.5	---	5.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
Chloroform	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
Chloromethane	19.5	---	5.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
2-Chlorotoluene	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
4-Chlorotoluene	21.0	---	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
Dibromochloromethane	20.3	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	16.8	---	5.00	ug/L	1	20.0	---	84	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	19.7	---	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
Dibromomethane	19.7	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,2-Dichlorobenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,3-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,4-Dichlorobenzene	19.2	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
Dichlorodifluoromethane	16.5	---	1.00	ug/L	1	20.0	---	82	80 - 120%	---	---	
1,1-Dichloroethane	20.0	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
LCS (24J0247-BS1)		Prepared: 10/07/24 09:47		Analyzed: 10/07/24 11:11								
1,2-Dichloroethane (EDC)	20.2	---	0.400	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,1-Dichloroethene	19.6	---	0.400	ug/L	1	20.0	---	98	80 - 120%	---	---	
cis-1,2-Dichloroethene	20.3	---	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
trans-1,2-Dichloroethene	20.0	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,2-Dichloropropane	19.0	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,3-Dichloropropane	19.6	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
2,2-Dichloropropane	19.5	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,1-Dichloropropene	19.3	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
cis-1,3-Dichloropropene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
trans-1,3-Dichloropropene	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Ethylbenzene	21.2	---	0.500	ug/L	1	20.0	---	106	80 - 120%	---	---	
Hexachlorobutadiene	18.2	---	5.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
2-Hexanone	40.3	---	10.0	ug/L	1	40.0	---	101	80 - 120%	---	---	
Isopropylbenzene	22.3	---	1.00	ug/L	1	20.0	---	111	80 - 120%	---	---	
4-Isopropyltoluene	21.1	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Methylene chloride	17.2	---	10.0	ug/L	1	20.0	---	86	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	41.9	---	10.0	ug/L	1	40.0	---	105	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Naphthalene	18.8	---	5.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
n-Propylbenzene	20.7	---	0.500	ug/L	1	20.0	---	104	80 - 120%	---	---	
Styrene	21.0	---	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	20.7	---	0.400	ug/L	1	20.0	---	103	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	20.1	---	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
Tetrachloroethene (PCE)	18.5	---	0.400	ug/L	1	20.0	---	93	80 - 120%	---	---	
Toluene	19.7	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,2,3-Trichlorobenzene	17.8	---	2.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,2,4-Trichlorobenzene	17.9	---	2.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
1,1,1-Trichloroethane	19.9	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,1,2-Trichloroethane	19.0	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Trichloroethene (TCE)	17.5	---	0.400	ug/L	1	20.0	---	88	80 - 120%	---	---	
Trichlorofluoromethane	20.8	---	2.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,2,3-Trichloropropane	18.0	---	1.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
1,2,4-Trimethylbenzene	21.4	---	1.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,3,5-Trimethylbenzene	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0247 - EPA 5030C						Water						
LCS (24J0247-BS1)		Prepared: 10/07/24 09:47 Analyzed: 10/07/24 11:11										
Vinyl chloride	19.9	---	0.200	ug/L	1	20.0	---	99	80 - 120%	---	---	
m,p-Xylene	43.2	---	1.00	ug/L	1	40.0	---	108	80 - 120%	---	---	
o-Xylene	21.4	---	0.500	ug/L	1	20.0	---	107	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
Blank (24J0259-BLK1)		Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:58										
<u>5035A/8260D</u>												
Acetone	ND	---	1.00	mg/kg wet	50	---	---	---	---	---	---	---
Acrylonitrile	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Bromochloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromoform	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Bromomethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon disulfide	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Chloroethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Chloroform	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chloromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromomethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---

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503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
Blank (24J0259-BLK1)	Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:58											
1,2-Dichloropropane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,3-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
2,2-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
trans-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Hexachlorobutadiene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
2-Hexanone	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
4-Isopropyltoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Methylene chloride	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
4-Methyl-2-pentanone (MiBK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
n-Propylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Styrene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,1,1,2-Tetrachloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Tetrachloroethene (PCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2,3-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
1,1,1-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,1,2-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Trichloroethene (TCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Trichlorofluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,2,3-Trichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Vinyl chloride	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
m,p-Xylene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
o-Xylene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % Dilution: 1x

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ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
Blank (24J0259-BLK1)		Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:58										
<i>Surr: Toluene-d8 (Surr)</i>		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
<i>4-Bromofluorobenzene (Surr)</i>		99 %		79-120 %		"						
LCS (24J0259-BS1)		Prepared: 10/07/24 10:00 Analyzed: 10/07/24 13:04										
5035A/8260D												
Acetone	1.76	---	1.00	mg/kg wet	50	2.00	---	88	80 - 120%	---	---	
Acrylonitrile	0.924	---	0.100	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
Benzene	0.983	---	0.0100	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Bromobenzene	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Bromochloromethane	0.963	---	0.0500	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Bromodichloromethane	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
Bromoform	1.12	---	0.100	mg/kg wet	50	1.00	---	112	80 - 120%	---	---	
Bromomethane	2.27	---	0.500	mg/kg wet	50	1.00	---	227	80 - 120%	---	---	Q-56
2-Butanone (MEK)	1.75	---	0.500	mg/kg wet	50	2.00	---	87	80 - 120%	---	---	
n-Butylbenzene	0.923	---	0.0500	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
sec-Butylbenzene	0.985	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
tert-Butylbenzene	0.982	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Carbon disulfide	1.07	---	0.500	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
Carbon tetrachloride	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Chlorobenzene	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
Chloroethane	1.37	---	0.500	mg/kg wet	50	1.00	---	137	80 - 120%	---	---	Q-56
Chloroform	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Chloromethane	0.829	---	0.250	mg/kg wet	50	1.00	---	83	80 - 120%	---	---	
2-Chlorotoluene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
4-Chlorotoluene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Dibromochloromethane	1.07	---	0.100	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	1.06	---	0.250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Dibromomethane	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
1,2-Dichlorobenzene	0.974	---	0.0250	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
1,3-Dichlorobenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
1,4-Dichlorobenzene	0.995	---	0.0250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Dichlorodifluoromethane	1.08	---	0.100	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
1,1-Dichloroethane	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
LCS (24J0259-BS1)		Prepared: 10/07/24 10:00		Analyzed: 10/07/24 13:04								
1,2-Dichloroethane (EDC)	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
1,1-Dichloroethene	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
cis-1,2-Dichloroethene	0.983	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
trans-1,2-Dichloroethene	0.984	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
1,2-Dichloropropane	0.932	---	0.0250	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
1,3-Dichloropropane	0.985	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
2,2-Dichloropropane	1.37	---	0.0500	mg/kg wet	50	1.00	---	137	80 - 120%	---	---	Q-56
1,1-Dichloropropene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
cis-1,3-Dichloropropene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
trans-1,3-Dichloropropene	1.26	---	0.0500	mg/kg wet	50	1.00	---	126	80 - 120%	---	---	Q-56
Ethylbenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Hexachlorobutadiene	0.960	---	0.100	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
2-Hexanone	1.70	---	0.500	mg/kg wet	50	2.00	---	85	80 - 120%	---	---	
Isopropylbenzene	0.998	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
4-Isopropyltoluene	0.968	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Methylene chloride	0.926	---	0.500	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.75	---	0.500	mg/kg wet	50	2.00	---	87	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Naphthalene	0.878	---	0.100	mg/kg wet	50	1.00	---	88	80 - 120%	---	---	
n-Propylbenzene	0.970	---	0.0250	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Styrene	0.982	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	1.10	---	0.0250	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	0.946	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Tetrachloroethene (PCE)	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
Toluene	0.967	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
1,2,3-Trichlorobenzene	0.943	---	0.250	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
1,2,4-Trichlorobenzene	0.900	---	0.250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
1,1,1-Trichloroethane	1.18	---	0.0250	mg/kg wet	50	1.00	---	118	80 - 120%	---	---	
1,1,2-Trichloroethane	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Trichloroethene (TCE)	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
Trichlorofluoromethane	1.23	---	0.100	mg/kg wet	50	1.00	---	123	80 - 120%	---	---	Q-56
1,2,3-Trichloropropane	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
1,2,4-Trimethylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
LCS (24J0259-BS1)		Prepared: 10/07/24 10:00		Analyzed: 10/07/24 13:04								
Vinyl chloride	0.886	---	0.0250	mg/kg wet	50	1.00	---	89	80 - 120%	---	---	
m,p-Xylene	2.12	---	0.0500	mg/kg wet	50	2.00	---	106	80 - 120%	---	---	
o-Xylene	0.982	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (24J0259-DUP1) Prepared: 10/03/24 13:30 Analyzed: 10/07/24 17:03

QC Source Sample: MW-13-10' (A4J1051-06)
5035A/8260D

Acetone	ND	---	0.946	mg/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	---	0.00946	mg/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	---	0.236	mg/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	0.236	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
Duplicate (24J0259-DUP1)		Prepared: 10/03/24 13:30 Analyzed: 10/07/24 17:03										
QC Source Sample: MW-13-10' (A4J1051-06)												
1,2-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	---	0.473	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.236	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.236	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0259 - EPA 5035A						Soil						
Duplicate (24J0259-DUP1)		Prepared: 10/03/24 13:30 Analyzed: 10/07/24 17:03										
QC Source Sample: MW-13-10' (A4J1051-06)												
1,1,2-Trichloroethane	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.0946	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0473	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0236	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24J0242 - Dry Weight Prep (EPA 8000D)						Soil						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24J0247</u>							
A4J1051-10	Water	NWTPH-Gx (MS)	10/03/24 10:00	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00
A4J1051-11	Water	NWTPH-Gx (MS)	10/03/24 12:08	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00
A4J1051-12	Water	NWTPH-Gx (MS)	10/04/24 10:05	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24J0259</u>							
A4J1051-01	Soil	NWTPH-Gx (MS)	10/03/24 09:00	10/03/24 09:00	7.07g/5mL	5g/5mL	0.71
A4J1051-02	Soil	NWTPH-Gx (MS)	10/03/24 09:05	10/03/24 09:05	7.84g/5mL	5g/5mL	0.64
A4J1051-03	Soil	NWTPH-Gx (MS)	10/03/24 09:10	10/03/24 09:10	7.24g/5mL	5g/5mL	0.69
A4J1051-04	Soil	NWTPH-Gx (MS)	10/03/24 09:15	10/03/24 09:15	5.34g/5mL	5g/5mL	0.94
A4J1051-05	Soil	NWTPH-Gx (MS)	10/03/24 13:25	10/03/24 13:25	7.54g/5mL	5g/5mL	0.66
A4J1051-06	Soil	NWTPH-Gx (MS)	10/03/24 13:30	10/03/24 13:30	6.76g/5mL	5g/5mL	0.74
A4J1051-07	Soil	NWTPH-Gx (MS)	10/03/24 13:40	10/03/24 13:40	7.28g/5mL	5g/5mL	0.69
A4J1051-08	Soil	NWTPH-Gx (MS)	10/03/24 13:45	10/03/24 13:45	7.12g/5mL	5g/5mL	0.70
A4J1051-09	Soil	NWTPH-Gx (MS)	10/03/24 17:50	10/03/24 17:50	7.51g/5mL	5g/5mL	0.67

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24J0247</u>							
A4J1051-10	Water	EPA 8260D	10/03/24 10:00	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00
A4J1051-11	Water	EPA 8260D	10/03/24 12:08	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00
A4J1051-12	Water	EPA 8260D	10/04/24 10:05	10/07/24 11:47	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24J0259</u>							
A4J1051-01	Soil	5035A/8260D	10/03/24 09:00	10/03/24 09:00	7.07g/5mL	5g/5mL	0.71
A4J1051-02	Soil	5035A/8260D	10/03/24 09:05	10/03/24 09:05	7.84g/5mL	5g/5mL	0.64
A4J1051-03	Soil	5035A/8260D	10/03/24 09:10	10/03/24 09:10	7.24g/5mL	5g/5mL	0.69
A4J1051-04	Soil	5035A/8260D	10/03/24 09:15	10/03/24 09:15	5.34g/5mL	5g/5mL	0.94
A4J1051-05	Soil	5035A/8260D	10/03/24 13:25	10/03/24 13:25	7.54g/5mL	5g/5mL	0.66
A4J1051-06	Soil	5035A/8260D	10/03/24 13:30	10/03/24 13:30	6.76g/5mL	5g/5mL	0.74
A4J1051-07	Soil	5035A/8260D	10/03/24 13:40	10/03/24 13:40	7.28g/5mL	5g/5mL	0.69

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ANALYTICAL REPORT

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Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4J1051-08	Soil	5035A/8260D	10/03/24 13:45	10/03/24 13:45	7.12g/5mL	5g/5mL	0.70
A4J1051-09	Soil	5035A/8260D	10/03/24 17:50	10/03/24 17:50	7.51g/5mL	5g/5mL	0.67

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24J0242</u>							
A4J1051-01	Soil	EPA 8000D	10/03/24 09:00	10/07/24 09:20			NA
A4J1051-02	Soil	EPA 8000D	10/03/24 09:05	10/07/24 09:20			NA
A4J1051-03	Soil	EPA 8000D	10/03/24 09:10	10/07/24 09:20			NA
A4J1051-04	Soil	EPA 8000D	10/03/24 09:15	10/07/24 09:20			NA
A4J1051-05	Soil	EPA 8000D	10/03/24 13:25	10/07/24 09:20			NA
A4J1051-06	Soil	EPA 8000D	10/03/24 13:30	10/07/24 09:20			NA
A4J1051-07	Soil	EPA 8000D	10/03/24 13:40	10/07/24 09:20			NA
A4J1051-08	Soil	EPA 8000D	10/03/24 13:45	10/07/24 09:20			NA
A4J1051-09	Soil	EPA 8000D	10/03/24 17:50	10/07/24 09:20			NA

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ANALYTICAL REPORT

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Montrose Environmental), Project (United Pacific #5468), and Report ID (A4J1051 - 10 18 24 1621).

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260. Samples that are ND (Non-Detect) are not impacted.

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ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
- Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
- For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses. 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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ORELAP ID: **OR100062**

<p>Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705</p>	<p>Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow</p>	<p style="text-align: right;">Report ID: A4J1051 - 10 18 24 1621</p>
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental Project: **United Pacific #5468**
1631 E Saint Andrew Place Project Number: **027409**
Santa Ana, CA 92705 Project Manager: **Laura Skow** **Report ID:**
A4J1051 - 10 18 24 1621

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Company: **Montrose Environmental** Project Mgr: **Laura Skow**
Address: **1631 East Saint Andrew Place, Santa Ana, CA** Phone: **714-919-6533**
Sampled by: **Kris Kern** Project Name: **United Pacific #5468**
Site Location: **5720 Main St. Springfield, Oregon** Email: **lshowe@montrose-env.com**

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Bi, Cd, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive	
																						ANALYSIS REQUEST
MW-12-5	10/1/14	0900	Soil	1		X				X												
MW-12-10'		0905				X				X												
MW-12-15'		0910				X				X												
MW-12-20'		0915				X				X												
MW-13-5'		1325				X				X												
MW-13-10'		1330				X				X												
MW-13-15'		1340				X				X												
MW-13-20'		1345				X				X												
MW-13-20' (Dup)		1750				X				X												
Equipment Blank		1800				X				X												

TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day **Standard** Other: _____

SAMPLES ARE HELD FOR 30 DAYS

Standard Turn Around Time (TAT) = 10 Business Days

RELINQUISHED BY:
Signature: *[Signature]* Date: 10/14/14
Printed Name: **Kris Kern** Time: 12:08
Company: **Montrose Environmental**

RECEIVED BY:
Signature: *[Signature]* Date: 10/14/14
Printed Name: **Melina Mariposa** Time: 12:08
Company: **Apex**

Form Y-002 R-00

Apex Laboratories

[Signature]

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Company: **Montrose Environmental** Project Mgr: **Laura Skow**
Address: **1631 East Saint Andrew Place, Santa Ana, CA**
Phone: **714-919-6533** Email: **l.skow@montrose-env.com**

Sampled by: **Kris Kern**
Site Location: **5700 Main Street Springfield, Oregon**
State: _____ County: _____

Lab # **A4J1051** COC 2 of 2
Project #: **627109**
PO # _____

ANALYSIS REQUEST

DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DA	NWTPH-GA	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, SP, AS, BA, BE, CA, CB, CR, CO, CU, FE, PB, HG, MG, MN, MO, NI, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive	
10/6/24	1208	Water	10			X				X												
10/4/24	1205	Water	3			X				X												

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **5 Day** 1 Day 2 Day 3 Day Other: _____

SPECIAL INSTRUCTIONS:

RECEIVED BY: _____ Date: _____
Signature: _____ Printed Name: _____ Company: _____

RECEIVED BY: _____ Date: _____
Signature: _____ Printed Name: _____ Company: _____

Form Y-002 R-00

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Montrose Environmental 1631 E Saint Andrew Place Santa Ana, CA 92705	Project: United Pacific #5468 Project Number: 027409 Project Manager: Laura Skow	Report ID: A4J1051 - 10 18 24 1621
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APEXLABS COOLER RECEIPT FORM

Client: Montrose Environmental Element WO#: A4J1051

Project/Project #: United Pacific #5468/627409

Delivery Info:

Date/time received: 10/4/24 @ 12:08 By: JAM

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

From USDA Regulated Origin? Yes No

Cooler Inspection Date/time inspected: 10/4/24 @ 12:08 By: JAM

Chain of Custody included? Yes No

Signed/dated by client? Yes No

Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.3</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>IN</u>						

Cooler out of temp? (Y/N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 10/4/24 @ 12:35 By: KN

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? ^{03/10/24} Yes No Comments: Equipment Blank ID on cont. reads "Equipment Blank # MW-12" (1/3) and "Equipment blank - mw-12" (2/3)

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA pH ID: _____

Comments: TB #3614

Labeled by:

KN

Witness:

JAM

Cooler Inspected by:

KN

Form Y-003 R-02 -

Apex Laboratories

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C O'Brien

Cameron O'Brien, Project Manager



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

November 05, 2024

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

RE: 5468, Springfield
Work Order Number: L24J088

Enclosed are the results of analyses for samples received by our laboratory on 10/30/2024.

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.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Notes and Definitions

Item	Definition
S	Spike recovery indicates a possible matrix effect.
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.
S4	Outlying surrogate recovery(ies) observed.
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
L24J088-01	MW-12	Water	10/29/2024	10/30/2024
L24J088-02	MW-13	Water	10/29/2024	10/30/2024
L24J088-03	DUP-1	Water	10/29/2024	10/30/2024
L24J088-04	EB-1	Water	10/29/2024	10/30/2024
L24J088-05	TB	Water	10/29/2024	10/30/2024



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: MW-13			Lab#: L24J088-02		
Gasoline	9400		ug/L	2500	NWTPH-Gx
Benzene	630		ug/L	25	8260D
Toluene	2800		ug/L	50	8260D
Ethylbenzene	230		ug/L	25	8260D
Total Xylenes	1600		ug/L	50	8260D
Styrene	28		ug/L	1.0	8260D
Isopropylbenzene	9.4		ug/L	4.0	8260D
n-Propylbenzene	17		ug/L	1.0	8260D
2-Chlorotoluene	6.3		ug/L	1.0	8260D
1,3,5-Trimethylbenzene	44		ug/L	1.0	8260D
4-Chlorotoluene	11		ug/L	1.0	8260D
tert-Butylbenzene	29		ug/L	1.0	8260D
1,2,4-Trimethylbenzene	130		ug/L	1.0	8260D
sec-Butylbenzene	160		ug/L	1.0	8260D
n-Butylbenzene	11		ug/L	1.0	8260D
Naphthalene	34		ug/L	5.0	8260D

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



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results

Client Sample ID: MW-12

Lab ID: L24J088-01 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
Dichlorodifluoromethane	ND		2.0	ug/L	10/31/2024	PB
Chloromethane	ND		2.0	ug/L	10/31/2024	PB
Vinyl Chloride (SIM)	ND		0.20	ug/L	10/31/2024	PB
Bromomethane	ND		2.0	ug/L	10/31/2024	PB
Chloroethane	ND		2.0	ug/L	10/31/2024	PB
Trichlorofluoromethane	ND		2.0	ug/L	10/31/2024	PB
1,1-Dichloroethene	ND		0.50	ug/L	10/31/2024	PB
Methylene chloride	ND		1.0	ug/L	10/31/2024	PB
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	10/31/2024	PB
trans-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloroethane	ND		1.0	ug/L	10/31/2024	PB
2,2-Dichloropropane	ND		2.0	ug/L	10/31/2024	PB
cis-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
Chloroform	ND		1.0	ug/L	10/31/2024	PB
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L	10/31/2024	PB
Carbon tetrachloride	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Benzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	10/31/2024	PB
Trichloroethene (SIM)	ND		0.40	ug/L	10/31/2024	PB
1,2-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromomethane	ND		1.0	ug/L	10/31/2024	PB
Bromodichloromethane	ND		1.0	ug/L	10/31/2024	PB
cis-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Toluene	ND		2.0	ug/L	10/31/2024	PB
Trans-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
1,1,2-Trichloroethane	ND		1.0	ug/L	10/31/2024	PB
Tetrachloroethene (SIM)	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromochloromethane	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	10/31/2024	PB
Chlorobenzene	ND		1.0	ug/L	10/31/2024	PB
Ethylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Total Xylenes	ND		2.0	ug/L	10/31/2024	PB



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Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: MW-12

Lab ID: L24J088-01 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D (Continued)						
Styrene	ND		1.0	ug/L	10/31/2024	PB
Bromoform	ND		1.0	ug/L	10/31/2024	PB
Isopropylbenzene	ND		4.0	ug/L	10/31/2024	PB
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Bromobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Propylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,3-Trichloropropane	ND		1.0	ug/L	10/31/2024	PB
2-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
1,3,5-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
4-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
tert-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,4-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
sec-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
p-Isopropyltoluene	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,4-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L	10/31/2024	PB
1,2,4-Trichlorobenzene	ND		2.0	ug/L	10/31/2024	PB
Hexachlorobutadiene	ND		5.0	ug/L	10/31/2024	PB
Naphthalene	ND		5.0	ug/L	10/31/2024	PB
1,2,3-Trichlorobenzene	ND		5.0	ug/L	10/31/2024	PB
Surrogate: Dibromofluoromethane	144%		49.6-175		10/31/2024	PB
Surrogate: 1,2-Dichloroethane-d4	168%		31.7-194		10/31/2024	PB
Surrogate: Toluene-d8	108%		52.9-135		10/31/2024	PB
Surrogate: 4-Bromofluorobenzene	95.4%		50.8-121		10/31/2024	PB
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	10/31/2024	PB
Surrogate: Toluene-d8	108%		52.9-135		10/31/2024	PB



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: MW-13

Lab ID: L24J088-02 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
Dichlorodifluoromethane	ND		2.0	ug/L	10/31/2024	PB
Chloromethane	ND		2.0	ug/L	10/31/2024	PB
Vinyl Chloride (SIM)	ND		0.20	ug/L	10/31/2024	PB
Bromomethane	ND		2.0	ug/L	10/31/2024	PB
Chloroethane	ND		2.0	ug/L	10/31/2024	PB
Trichlorofluoromethane	ND		2.0	ug/L	10/31/2024	PB
1,1-Dichloroethene	ND		0.50	ug/L	10/31/2024	PB
Methylene chloride	ND		1.0	ug/L	10/31/2024	PB
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	10/31/2024	PB
trans-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloroethane	ND		1.0	ug/L	10/31/2024	PB
2,2-Dichloropropane	ND		2.0	ug/L	10/31/2024	PB
cis-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
Chloroform	ND		1.0	ug/L	10/31/2024	PB
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L	10/31/2024	PB
Carbon tetrachloride	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Benzene	630		25	ug/L	10/31/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	10/31/2024	PB
Trichloroethene (SIM)	ND		0.40	ug/L	10/31/2024	PB
1,2-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromomethane	ND		1.0	ug/L	10/31/2024	PB
Bromodichloromethane	ND		1.0	ug/L	10/31/2024	PB
cis-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Toluene	2800		50	ug/L	10/31/2024	PB
Trans-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
1,1,2-Trichloroethane	ND		1.0	ug/L	10/31/2024	PB
Tetrachloroethene (SIM)	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromochloromethane	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	10/31/2024	PB
Chlorobenzene	ND		1.0	ug/L	10/31/2024	PB
Ethylbenzene	230		25	ug/L	10/31/2024	PB
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Total Xylenes	1600		50	ug/L	10/31/2024	PB



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: MW-13

Lab ID: L24J088-02 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D (Continued)						
Styrene	28		1.0	ug/L	10/31/2024	PB
Bromoform	ND		1.0	ug/L	10/31/2024	PB
Isopropylbenzene	9.4		4.0	ug/L	10/31/2024	PB
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Bromobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Propylbenzene	17		1.0	ug/L	10/31/2024	PB
1,2,3-Trichloropropane	ND		1.0	ug/L	10/31/2024	PB
2-Chlorotoluene	6.3		1.0	ug/L	10/31/2024	PB
1,3,5-Trimethylbenzene	44		1.0	ug/L	10/31/2024	PB
4-Chlorotoluene	11		1.0	ug/L	10/31/2024	PB
tert-Butylbenzene	29		1.0	ug/L	10/31/2024	PB
1,2,4-Trimethylbenzene	130		1.0	ug/L	10/31/2024	PB
sec-Butylbenzene	160		1.0	ug/L	10/31/2024	PB
p-Isopropyltoluene	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,4-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Butylbenzene	11		1.0	ug/L	10/31/2024	PB
1,2-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L	10/31/2024	PB
1,2,4-Trichlorobenzene	ND		2.0	ug/L	10/31/2024	PB
Hexachlorobutadiene	ND		5.0	ug/L	10/31/2024	PB
Naphthalene	34		5.0	ug/L	10/31/2024	PB
1,2,3-Trichlorobenzene	ND		5.0	ug/L	10/31/2024	PB
Surrogate: Dibromofluoromethane	128%		49.6-175		10/31/2024	PB
Surrogate: 1,2-Dichloroethane-d4	142%		31.7-194		10/31/2024	PB
Surrogate: Toluene-d8	137%	S4	52.9-135		10/31/2024	PB
Surrogate: 4-Bromofluorobenzene	135%	S4	50.8-121		10/31/2024	PB
Gasoline by Method NWTPH-Gx						
Gasoline	9400		2500	ug/L	10/31/2024	PB
Surrogate: Toluene-d8	128%		52.9-135		10/31/2024	PB



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: DUP-1

Lab ID: L24J088-03 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
Dichlorodifluoromethane	ND		2.0	ug/L	10/31/2024	PB
Chloromethane	ND		2.0	ug/L	10/31/2024	PB
Vinyl Chloride (SIM)	ND		0.20	ug/L	10/31/2024	PB
Bromomethane	ND		2.0	ug/L	10/31/2024	PB
Chloroethane	ND		2.0	ug/L	10/31/2024	PB
Trichlorofluoromethane	ND		2.0	ug/L	10/31/2024	PB
1,1-Dichloroethene	ND		0.50	ug/L	10/31/2024	PB
Methylene chloride	ND		1.0	ug/L	10/31/2024	PB
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	10/31/2024	PB
trans-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloroethane	ND		1.0	ug/L	10/31/2024	PB
2,2-Dichloropropane	ND		2.0	ug/L	10/31/2024	PB
cis-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
Chloroform	ND		1.0	ug/L	10/31/2024	PB
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L	10/31/2024	PB
Carbon tetrachloride	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Benzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	10/31/2024	PB
Trichloroethene (SIM)	ND		0.40	ug/L	10/31/2024	PB
1,2-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromomethane	ND		1.0	ug/L	10/31/2024	PB
Bromodichloromethane	ND		1.0	ug/L	10/31/2024	PB
cis-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Toluene	ND		2.0	ug/L	10/31/2024	PB
Trans-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
1,1,2-Trichloroethane	ND		1.0	ug/L	10/31/2024	PB
Tetrachloroethene (SIM)	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromochloromethane	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	10/31/2024	PB
Chlorobenzene	ND		1.0	ug/L	10/31/2024	PB
Ethylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Total Xylenes	ND		2.0	ug/L	10/31/2024	PB



Libby Environmental, Inc.

Montrose Environmental Group, Inc.
4150 B Place NW, Suite 106
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Project: 5468, Springfield
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City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: DUP-1

Lab ID: L24J088-03 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D (Continued)						
Styrene	ND		1.0	ug/L	10/31/2024	PB
Bromoform	ND		1.0	ug/L	10/31/2024	PB
Isopropylbenzene	ND		4.0	ug/L	10/31/2024	PB
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Bromobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Propylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,3-Trichloropropane	ND		1.0	ug/L	10/31/2024	PB
2-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
1,3,5-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
4-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
tert-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,4-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
sec-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
p-Isopropyltoluene	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,4-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L	10/31/2024	PB
1,2,4-Trichlorobenzene	ND		2.0	ug/L	10/31/2024	PB
Hexachlorobutadiene	ND		5.0	ug/L	10/31/2024	PB
Naphthalene	ND		5.0	ug/L	10/31/2024	PB
1,2,3-Trichlorobenzene	ND		5.0	ug/L	10/31/2024	PB
Surrogate: Dibromofluoromethane	141%		49.6-175		10/31/2024	PB
Surrogate: 1,2-Dichloroethane-d4	143%		31.7-194		10/31/2024	PB
Surrogate: Toluene-d8	123%		52.9-135		10/31/2024	PB
Surrogate: 4-Bromofluorobenzene	109%		50.8-121		10/31/2024	PB
Gasoline by Method NWTPH-Gx						
Gasoline	ND		100	ug/L	10/31/2024	PB
Surrogate: Toluene-d8	123%		52.9-135		10/31/2024	PB



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Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: EB-1

Lab ID: L24J088-04 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
Dichlorodifluoromethane	ND		2.0	ug/L	10/31/2024	PB
Chloromethane	ND		2.0	ug/L	10/31/2024	PB
Vinyl Chloride (SIM)	ND		0.20	ug/L	10/31/2024	PB
Bromomethane	ND		2.0	ug/L	10/31/2024	PB
Chloroethane	ND		2.0	ug/L	10/31/2024	PB
Trichlorofluoromethane	ND		2.0	ug/L	10/31/2024	PB
1,1-Dichloroethene	ND		0.50	ug/L	10/31/2024	PB
Methylene chloride	ND		1.0	ug/L	10/31/2024	PB
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	10/31/2024	PB
trans-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloroethane	ND		1.0	ug/L	10/31/2024	PB
2,2-Dichloropropane	ND		2.0	ug/L	10/31/2024	PB
cis-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
Chloroform	ND		1.0	ug/L	10/31/2024	PB
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L	10/31/2024	PB
Carbon tetrachloride	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Benzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	10/31/2024	PB
Trichloroethene (SIM)	ND		0.40	ug/L	10/31/2024	PB
1,2-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromomethane	ND		1.0	ug/L	10/31/2024	PB
Bromodichloromethane	ND		1.0	ug/L	10/31/2024	PB
cis-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Toluene	ND		2.0	ug/L	10/31/2024	PB
Trans-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
1,1,2-Trichloroethane	ND		1.0	ug/L	10/31/2024	PB
Tetrachloroethene (SIM)	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromochloromethane	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	10/31/2024	PB
Chlorobenzene	ND		1.0	ug/L	10/31/2024	PB
Ethylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Total Xylenes	ND		2.0	ug/L	10/31/2024	PB



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Work Order: L24J088
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Sample Results (Continued)

Client Sample ID: EB-1

Lab ID: L24J088-04 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D (Continued)</u>						
Styrene	ND		1.0	ug/L	10/31/2024	PB
Bromoform	ND		1.0	ug/L	10/31/2024	PB
Isopropylbenzene	ND		4.0	ug/L	10/31/2024	PB
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Bromobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Propylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,3-Trichloropropane	ND		1.0	ug/L	10/31/2024	PB
2-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
1,3,5-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
4-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
tert-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,4-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
sec-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
p-Isopropyltoluene	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,4-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L	10/31/2024	PB
1,2,4-Trichlorobenzene	ND		2.0	ug/L	10/31/2024	PB
Hexachlorobutadiene	ND		5.0	ug/L	10/31/2024	PB
Naphthalene	ND		5.0	ug/L	10/31/2024	PB
1,2,3-Trichlorobenzene	ND		5.0	ug/L	10/31/2024	PB
Surrogate: Dibromofluoromethane	137%		49.6-175		10/31/2024	PB
Surrogate: 1,2-Dichloroethane-d4	145%		31.7-194		10/31/2024	PB
Surrogate: Toluene-d8	126%		52.9-135		10/31/2024	PB
Surrogate: 4-Bromofluorobenzene	113%		50.8-121		10/31/2024	PB
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		100	ug/L	10/31/2024	PB
Surrogate: Toluene-d8	126%		52.9-135		10/31/2024	PB



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City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: TB

Lab ID: L24J088-05 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
Dichlorodifluoromethane	ND		2.0	ug/L	10/31/2024	PB
Chloromethane	ND		2.0	ug/L	10/31/2024	PB
Vinyl Chloride (SIM)	ND		0.20	ug/L	10/31/2024	PB
Bromomethane	ND		2.0	ug/L	10/31/2024	PB
Chloroethane	ND		2.0	ug/L	10/31/2024	PB
Trichlorofluoromethane	ND		2.0	ug/L	10/31/2024	PB
1,1-Dichloroethene	ND		0.50	ug/L	10/31/2024	PB
Methylene chloride	ND		1.0	ug/L	10/31/2024	PB
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L	10/31/2024	PB
trans-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloroethane	ND		1.0	ug/L	10/31/2024	PB
2,2-Dichloropropane	ND		2.0	ug/L	10/31/2024	PB
cis-1,2-Dichloroethene	ND		1.0	ug/L	10/31/2024	PB
Chloroform	ND		1.0	ug/L	10/31/2024	PB
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L	10/31/2024	PB
Carbon tetrachloride	ND		1.0	ug/L	10/31/2024	PB
1,1-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Benzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichloroethane (EDC)	ND		1.0	ug/L	10/31/2024	PB
Trichloroethene (SIM)	ND		0.40	ug/L	10/31/2024	PB
1,2-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromomethane	ND		1.0	ug/L	10/31/2024	PB
Bromodichloromethane	ND		1.0	ug/L	10/31/2024	PB
cis-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
Toluene	ND		2.0	ug/L	10/31/2024	PB
Trans-1,3-Dichloropropene	ND		1.0	ug/L	10/31/2024	PB
1,1,2-Trichloroethane	ND		1.0	ug/L	10/31/2024	PB
Tetrachloroethene (SIM)	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichloropropane	ND		1.0	ug/L	10/31/2024	PB
Dibromochloromethane	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L	10/31/2024	PB
Chlorobenzene	ND		1.0	ug/L	10/31/2024	PB
Ethylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Total Xylenes	ND		2.0	ug/L	10/31/2024	PB



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City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Sample Results (Continued)

Client Sample ID: TB

Lab ID: L24J088-05 (Water)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Volatile Organic Compounds by EPA Method 8260D (Continued)						
Styrene	ND		1.0	ug/L	10/31/2024	PB
Bromoform	ND		1.0	ug/L	10/31/2024	PB
Isopropylbenzene	ND		4.0	ug/L	10/31/2024	PB
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	10/31/2024	PB
Bromobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Propylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,3-Trichloropropane	ND		1.0	ug/L	10/31/2024	PB
2-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
1,3,5-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
4-Chlorotoluene	ND		1.0	ug/L	10/31/2024	PB
tert-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2,4-Trimethylbenzene	ND		1.0	ug/L	10/31/2024	PB
sec-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
p-Isopropyltoluene	ND		1.0	ug/L	10/31/2024	PB
1,3-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,4-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
n-Butylbenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dichlorobenzene	ND		1.0	ug/L	10/31/2024	PB
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L	10/31/2024	PB
1,2,4-Trichlorobenzene	ND		2.0	ug/L	10/31/2024	PB
Hexachlorobutadiene	ND		5.0	ug/L	10/31/2024	PB
Naphthalene	ND		5.0	ug/L	10/31/2024	PB
1,2,3-Trichlorobenzene	ND		5.0	ug/L	10/31/2024	PB
Surrogate: Dibromofluoromethane	147%		49.6-175		10/31/2024	PB
Surrogate: 1,2-Dichloroethane-d4	165%		31.7-194		10/31/2024	PB
Surrogate: Toluene-d8	133%		52.9-135		10/31/2024	PB
Surrogate: 4-Bromofluorobenzene	118%		50.8-121		10/31/2024	PB



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Work Order: L24J088
Reported: 11/05/2024 12:51

Quality Control

Volatile Organic Compounds by EPA Method 8260D

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BYJ0128 - VOA

Blank (BYJ0128-BLK1)

Prepared & Analyzed: 10/31/2024

Dichlorodifluoromethane	ND		2.0	ug/L
Chloromethane	ND		2.0	ug/L
Vinyl Chloride (SIM)	ND		0.20	ug/L
Bromomethane	ND		2.0	ug/L
Chloroethane	ND		2.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,1-Dichloroethene	ND		0.50	ug/L
Methylene chloride	ND		1.0	ug/L
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		2.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
1,2-Dichloroethane (EDC)	ND		1.0	ug/L
Trichloroethene (SIM)	ND		0.40	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
cis-1,3-Dichloropropene	ND		1.0	ug/L
Toluene	ND		2.0	ug/L
Trans-1,3-Dichloropropene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
Tetrachloroethene (SIM)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L
Chlorobenzene	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Total Xylenes	ND		2.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
Isopropylbenzene	ND		4.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
n-Propylbenzene	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L
sec-Butylbenzene	ND		1.0	ug/L
p-Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L



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Work Order: L24J088
Reported: 11/05/2024 12:51

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 (BYJ0128-BLK1)					Prepared & Analyzed: 10/31/2024					
1,4-Dichlorobenzene	ND		1.0	ug/L						
n-Butylbenzene	ND		1.0	ug/L						
1,2-Dichlorobenzene	ND		1.0	ug/L						
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L						
1,2,4-Trichlorobenzene	ND		2.0	ug/L						
Hexachlorobutadiene	ND		5.0	ug/L						
Naphthalene	ND		5.0	ug/L						
1,2,3-Trichlorobenzene	ND		5.0	ug/L						
Surrogate: Dibromofluoromethane			27.3	ug/L	20.0		137	49.6-175		
Surrogate: 1,2-Dichloroethane-d4			31.0	ug/L	20.0		155	31.7-194		
Surrogate: Toluene-d8			25.0	ug/L	20.0		125	52.9-135		
Surrogate: 4-Bromofluorobenzene			19.1	ug/L	20.0		95.4	50.8-121		
LCS (BYJ0128-BS1)					Prepared & Analyzed: 10/31/2024					
Dichlorodifluoromethane	6.03		2.0	ug/L	5.00		121	19.5-231		
Chloromethane	5.97		2.0	ug/L	5.00		119	18.1-201		
Vinyl Chloride (VC)	6.48		2.0	ug/L	5.00		130	27.5-188		
Bromomethane	9.09		2.0	ug/L	5.00		182	19.9-196		
Chloroethane	15.2	S3	2.0	ug/L	5.00		303	10-235		
Trichlorofluoromethane	9.52		2.0	ug/L	5.00		190	30.1-235		
1,1-Dichloroethene	6.46		0.50	ug/L	5.00		129	42.4-208		
Methylene chloride	6.42		1.0	ug/L	5.00		128	10-240		
Methyl tert-Butyl Ether (MTBE)	6.79		5.0	ug/L	5.00		136	29.6-190		
trans-1,2-Dichloroethene	6.29		1.0	ug/L	5.00		126	37.7-200		
1,1-Dichloroethane	6.94		1.0	ug/L	5.00		139	33.2-213		
2,2-Dichloropropane	8.17		2.0	ug/L	5.00		163	37.2-202		
cis-1,2-Dichloroethene	6.02		1.0	ug/L	5.00		120	53.2-160		
Chloroform	6.92		1.0	ug/L	5.00		138	50.5-195		
1,1,1-Trichloroethane (TCA)	8.07		1.0	ug/L	5.00		161	52.4-188		
Carbon tetrachloride	8.87		1.0	ug/L	5.00		177	46.4-190		
1,1-Dichloropropene	6.18		1.0	ug/L	5.00		124	41.7-135		
Benzene	5.95		1.0	ug/L	5.00		119	54.1-136		
1,2-Dichloroethane (EDC)	7.73		1.0	ug/L	5.00		155	52.8-185		
Trichloroethene (TCE)	5.84		2.0	ug/L	5.00		117	63.3-132		
1,2-Dichloropropane	4.68		1.0	ug/L	5.00		93.6	66.8-141		
Dibromomethane	4.84		1.0	ug/L	5.00		96.9	45.4-174		
Bromodichloromethane	5.76		1.0	ug/L	5.00		115	34.3-194		
cis-1,3-Dichloropropene	4.66		1.0	ug/L	5.00		93.1	38.5-117		
Toluene	4.69		2.0	ug/L	5.00		93.8	53.3-135		
Trans-1,3-Dichloropropene	5.57		1.0	ug/L	5.00		111	46.6-134		
1,1,2-Trichloroethane	6.18		1.0	ug/L	5.00		124	63.4-173		
Tetrachloroethene (PCE)	6.96		2.0	ug/L	5.00		139	46.9-140		
1,3-Dichloropropane	6.24		1.0	ug/L	5.00		125	55.4-135		
Dibromochloromethane	7.41		1.0	ug/L	5.00		148	32.2-184		
1,2-Dibromoethane (EDB)	5.74		2.0	ug/L	5.00		115	49.9-155		
Chlorobenzene	6.60		1.0	ug/L	5.00		132	55.3-154		
Ethylbenzene	5.62		1.0	ug/L	5.00		112	51.1-125		
1,1,1,2-Tetrachloroethane	8.63		1.0	ug/L	5.00		173	24.3-215		
Total Xylenes	18.5		2.0	ug/L	15.0		123	47.2-123		
Styrene	6.71	S3	1.0	ug/L	5.00		134	32.3-125		
Bromoform	8.01		1.0	ug/L	5.00		160	11.5-184		
Isopropylbenzene	6.70	S3	4.0	ug/L	5.00		134	31.3-125		



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4150 B Place NW, Suite 106
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Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

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
LCS (BYJ0128-BS1)					Prepared & Analyzed: 10/31/2024					
1,1,2,2-Tetrachloroethane	5.81		1.0	ug/L	5.00		116	52.8-161		
Bromobenzene	6.14		1.0	ug/L	5.00		123	57.6-142		
n-Propylbenzene	5.06		1.0	ug/L	5.00		101	36.1-140		
1,2,3-Trichloropropane	6.20		1.0	ug/L	5.00		124	55.6-179		
2-Chlorotoluene	5.38		1.0	ug/L	5.00		108	43-132		
1,3,5-Trimethylbenzene	5.27		1.0	ug/L	5.00		105	33.2-137		
4-Chlorotoluene	4.67		1.0	ug/L	5.00		93.4	39.5-132		
tert-Butylbenzene	5.36		1.0	ug/L	5.00		107	20.5-136		
1,2,4-Trimethylbenzene	6.16		1.0	ug/L	5.00		123	31.1-138		
sec-Butylbenzene	5.72		1.0	ug/L	5.00		114	29.5-151		
p-Isopropyltoluene	4.90		1.0	ug/L	5.00		98.1	24.8-137		
1,3-Dichlorobenzene	6.02		1.0	ug/L	5.00		120	62.6-133		
1,4-Dichlorobenzene	5.88		1.0	ug/L	5.00		118	72.8-136		
n-Butylbenzene	5.74		1.0	ug/L	5.00		115	22.7-156		
1,2-Dichlorobenzene	5.45		1.0	ug/L	5.00		109	67.4-132		
1,2-Dibromo-3-Chloropropane	4.40		2.0	ug/L	5.00		88.1	35-151		
1,2,4-Trichlorobenzene	6.39		2.0	ug/L	5.00		128	38.5-174		
Hexachlorobutadiene	7.54		5.0	ug/L	5.00		151	54.4-191		
Naphthalene	5.29		5.0	ug/L	5.00		106	10-220		
1,2,3-Trichlorobenzene	5.22		5.0	ug/L	5.00		104	45.6-240		
Surrogate: Dibromofluoromethane			23.5	ug/L	20.0		117	49.6-175		
Surrogate: 1,2-Dichloroethane-d4			27.2	ug/L	20.0		136	31.7-194		
Surrogate: Toluene-d8			18.6	ug/L	20.0		93.2	52.9-135		
Surrogate: 4-Bromofluorobenzene		54	24.6	ug/L	20.0		123	50.8-121		
Duplicate (BYJ0128-DUP1)					Parent: L24J088-04					
Dichlorodifluoromethane	ND		2.0	ug/L		ND				35
Chloromethane	ND		2.0	ug/L		ND				35
Vinyl Chloride (SIM)	ND		0.20	ug/L		ND				35
Bromomethane	ND		2.0	ug/L		ND				35
Chloroethane	ND		2.0	ug/L		ND				35
Trichlorofluoromethane	ND		2.0	ug/L		ND				35
1,1-Dichloroethene	ND		0.50	ug/L		ND				35
Methylene chloride	ND		1.0	ug/L		ND				35
Methyl tert-Butyl Ether (MTBE)	ND		5.0	ug/L		ND				35
trans-1,2-Dichloroethene	ND		1.0	ug/L		ND				35
1,1-Dichloroethane	ND		1.0	ug/L		ND				35
2,2-Dichloropropane	ND		2.0	ug/L		ND				35
cis-1,2-Dichloroethene	ND		1.0	ug/L		ND				35
Chloroform	ND		1.0	ug/L		ND				35
1,1,1-Trichloroethane (TCA)	ND		1.0	ug/L		ND				35
Carbon tetrachloride	ND		1.0	ug/L		ND				35
1,1-Dichloropropene	ND		1.0	ug/L		ND				35
Benzene	ND		1.0	ug/L		ND				35
1,2-Dichloroethane (EDC)	ND		1.0	ug/L		ND				35
Trichloroethene (SIM)	ND		0.40	ug/L		ND				35
1,2-Dichloropropane	ND		1.0	ug/L		ND				35
Dibromomethane	ND		1.0	ug/L		ND				35
Bromodichloromethane	ND		1.0	ug/L		ND				35
cis-1,3-Dichloropropene	ND		1.0	ug/L		ND				35
Toluene	ND		2.0	ug/L		ND				35
Trans-1,3-Dichloropropene	ND		1.0	ug/L		ND				35



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Reported: 11/05/2024 12:51

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 (BYJ0128-DUP1)		Parent: L24J088-04			Prepared & Analyzed: 10/31/2024					
1,1,2-Trichloroethane	ND		1.0	ug/L		ND				35
Tetrachloroethene (SIM)	ND		1.0	ug/L		ND				35
1,3-Dichloropropane	ND		1.0	ug/L		ND				35
Dibromochloromethane	ND		1.0	ug/L		ND				35
1,2-Dibromoethane (EDB) (SIM)	ND		0.010	ug/L		ND				35
Chlorobenzene	ND		1.0	ug/L		ND				35
Ethylbenzene	ND		1.0	ug/L		ND				35
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		ND				35
Total Xylenes	ND		2.0	ug/L		ND				35
Styrene	ND		1.0	ug/L		ND				35
Bromoform	ND		1.0	ug/L		ND				35
Isopropylbenzene	ND		4.0	ug/L		ND				35
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		ND				35
Bromobenzene	ND		1.0	ug/L		ND				35
n-Propylbenzene	ND		1.0	ug/L		ND				35
1,2,3-Trichloropropane	ND		1.0	ug/L		ND				35
2-Chlorotoluene	ND		1.0	ug/L		ND				35
1,3,5-Trimethylbenzene	ND		1.0	ug/L		ND				35
4-Chlorotoluene	ND		1.0	ug/L		ND				35
tert-Butylbenzene	ND		1.0	ug/L		ND				35
1,2,4-Trimethylbenzene	ND		1.0	ug/L		ND				35
sec-Butylbenzene	ND		1.0	ug/L		ND				35
p-Isopropyltoluene	ND		1.0	ug/L		ND				35
1,3-Dichlorobenzene	ND		1.0	ug/L		ND				35
1,4-Dichlorobenzene	ND		1.0	ug/L		ND				35
n-Butylbenzene	ND		1.0	ug/L		ND				35
1,2-Dichlorobenzene	ND		1.0	ug/L		ND				35
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L		ND				35
1,2,4-Trichlorobenzene	ND		2.0	ug/L		ND				35
Hexachlorobutadiene	ND		5.0	ug/L		ND				35
Naphthalene	ND		5.0	ug/L		ND				35
1,2,3-Trichlorobenzene	ND		5.0	ug/L		ND				35
Surrogate: Dibromofluoromethane			29.6	ug/L	20.0		148	49.6-175		
Surrogate: 1,2-Dichloroethane-d4			33.8	ug/L	20.0		169	31.7-194		
Surrogate: Toluene-d8			23.6	ug/L	20.0		118	52.9-135		
Surrogate: 4-Bromofluorobenzene			22.9	ug/L	20.0		115	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
Matrix Spike (BYJ0128-MS1)		Parent: L24J088-04			Prepared & Analyzed: 10/31/2024					
Dichlorodifluoromethane	6.60		2.0	ug/L	5.00	ND	132	10-235		
Chloromethane	6.74		2.0	ug/L	5.00	ND	135	28.4-222		
Vinyl Chloride (VC)	6.69		2.0	ug/L	5.00	ND	134	12.9-180		
Bromomethane	9.94		2.0	ug/L	5.00	ND	199	10-190		
Chloroethane	16.9	S1	2.0	ug/L	5.00	ND	338	16-255		
Trichlorofluoromethane	9.75		2.0	ug/L	5.00	ND	195	26.8-227		
1,1-Dichloroethene	6.78		0.50	ug/L	5.00	ND	136	39.1-203		
Methylene chloride	8.25		1.0	ug/L	5.00	ND	165	55.4-170		
Methyl tert-Butyl Ether (MTBE)	7.92		5.0	ug/L	5.00	ND	158	55.3-168		
trans-1,2-Dichloroethene	6.63		1.0	ug/L	5.00	ND	133	40.5-190		
1,1-Dichloroethane	8.20		1.0	ug/L	5.00	ND	164	58.3-191		
2,2-Dichloropropane	7.18		2.0	ug/L	5.00	ND	144	17-224		
cis-1,2-Dichloroethene	6.99		1.0	ug/L	5.00	ND	140	28.9-177		
Chloroform	8.21		1.0	ug/L	5.00	ND	164	47-184		
1,1,1-Trichloroethane (TCA)	9.20		1.0	ug/L	5.00	ND	184	39.8-212		
Carbon tetrachloride	9.89		1.0	ug/L	5.00	ND	198	19.1-230		
1,1-Dichloropropene	7.94	S	1.0	ug/L	5.00	ND	159	42.3-150		
Benzene	6.88		1.0	ug/L	5.00	ND	138	55.1-155		
1,2-Dichloroethane (EDC)	8.75		1.0	ug/L	5.00	ND	175	38.2-189		
Trichloroethene (TCE)	6.61	S1	2.0	ug/L	5.00	ND	132	58.3-130		
1,2-Dichloropropane	6.00		1.0	ug/L	5.00	ND	120	52-153		
Dibromomethane	5.96		1.0	ug/L	5.00	ND	119	31.1-193		
Bromodichloromethane	6.75		1.0	ug/L	5.00	ND	135	35.6-186		
cis-1,3-Dichloropropene	6.39		1.0	ug/L	5.00	ND	128	26.7-140		
Toluene	7.61		2.0	ug/L	5.00	ND	152	23-175		
Trans-1,3-Dichloropropene	5.32		1.0	ug/L	5.00	ND	106	31-146		
1,1,2-Trichloroethane	5.50		1.0	ug/L	5.00	ND	110	40.5-182		
Tetrachloroethene (PCE)	7.20		2.0	ug/L	5.00	ND	144	32-159		
1,3-Dichloropropane	6.26		1.0	ug/L	5.00	ND	125	39.4-151		
Dibromochloromethane	7.04		1.0	ug/L	5.00	ND	141	33-174		
1,2-Dibromoethane (EDB)	6.70		2.0	ug/L	5.00	ND	134	44.7-143		
Chlorobenzene	7.49	S	1.0	ug/L	5.00	ND	150	62.5-144		
Ethylbenzene	6.80	S	1.0	ug/L	5.00	ND	136	57-127		
1,1,1,2-Tetrachloroethane	8.11		1.0	ug/L	5.00	ND	162	34.6-196		
Total Xylenes	20.7		2.0	ug/L	15.0	ND	138	44.1-133		
Styrene	5.73		1.0	ug/L	5.00	ND	115	45.6-118		
Bromoform	8.10		1.0	ug/L	5.00	ND	162	15.6-174		
Isopropylbenzene	6.87		4.0	ug/L	5.00	ND	137	22.8-157		
1,1,2,2-Tetrachloroethane	5.78		1.0	ug/L	5.00	ND	116	32.9-193		
Bromobenzene	6.22		1.0	ug/L	5.00	ND	124	48.6-163		
n-Propylbenzene	5.07		1.0	ug/L	5.00	ND	101	28.2-165		
1,2,3-Trichloropropane	6.45		1.0	ug/L	5.00	ND	129	31.4-205		
2-Chlorotoluene	5.63		1.0	ug/L	5.00	ND	113	39.7-151		
1,3,5-Trimethylbenzene	5.42		1.0	ug/L	5.00	ND	108	36.4-158		
4-Chlorotoluene	5.78		1.0	ug/L	5.00	ND	116	40.5-147		
tert-Butylbenzene	5.30		1.0	ug/L	5.00	ND	106	27.8-152		
1,2,4-Trimethylbenzene	6.71		1.0	ug/L	5.00	ND	134	33.8-161		
sec-Butylbenzene	5.50		1.0	ug/L	5.00	ND	110	21.4-179		
p-Isopropyltoluene	4.78		1.0	ug/L	5.00	ND	95.6	27.8-146		
1,3-Dichlorobenzene	6.49		1.0	ug/L	5.00	ND	130	72.3-130		
1,4-Dichlorobenzene	6.20		1.0	ug/L	5.00	ND	124	68.5-136		
n-Butylbenzene	5.79		1.0	ug/L	5.00	ND	116	25.9-168		



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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
Matrix Spike (BYJ0128-MS1)			Parent: L24J088-04			Prepared & Analyzed: 10/31/2024				
1,2-Dichlorobenzene	6.10		1.0	ug/L	5.00	ND	122	63.7-129		
1,2-Dibromo-3-Chloropropane	7.18		2.0	ug/L	5.00	ND	144	10-207		
1,2,4-Trichlorobenzene	5.52		2.0	ug/L	5.00	ND	110	14.9-183		
Hexachlorobutadiene	7.73		5.0	ug/L	5.00	ND	155	28.9-211		
Naphthalene	5.81		5.0	ug/L	5.00	ND	116	22.3-211		
1,2,3-Trichlorobenzene	5.11		5.0	ug/L	5.00	ND	102	10-224		
Surrogate: Dibromofluoromethane			26.3	ug/L	20.0		132	49.6-175		
Surrogate: 1,2-Dichloroethane-d4			30.1	ug/L	20.0		150	31.7-194		
Surrogate: Toluene-d8			25.2	ug/L	20.0		126	52.9-135		
Surrogate: 4-Bromofluorobenzene		S4	26.4	ug/L	20.0		132	50.8-121		
Matrix Spike Dup (BYJ0128-MSD1)			Parent: L24J088-04			Prepared & Analyzed: 10/31/2024				
Dichlorodifluoromethane	6.71		2.0	ug/L	5.00	ND	134	10-235	1.64	35
Chloromethane	7.32		2.0	ug/L	5.00	ND	146	28.4-222	8.22	35
Vinyl Chloride (VC)	6.26		2.0	ug/L	5.00	ND	125	12.9-180	6.75	35
Bromomethane	8.90		2.0	ug/L	5.00	ND	178	10-190	11.0	35
Chloroethane	16.4	S1	2.0	ug/L	5.00	ND	327	16-255	3.13	35
Trichlorofluoromethane	9.92		2.0	ug/L	5.00	ND	198	26.8-227	1.77	35
1,1-Dichloroethene	7.00		0.50	ug/L	5.00	ND	140	39.1-203	3.31	35
Methylene chloride	9.43	S	1.0	ug/L	5.00	ND	189	55.4-170	13.4	35
Methyl tert-Butyl Ether (MTBE)	8.04		5.0	ug/L	5.00	ND	161	55.3-168	1.43	35
trans-1,2-Dichloroethene	7.33		1.0	ug/L	5.00	ND	147	40.5-190	10.0	35
1,1-Dichloroethane	8.24		1.0	ug/L	5.00	ND	165	58.3-191	0.401	35
2,2-Dichloropropane	7.39		2.0	ug/L	5.00	ND	148	17-224	2.88	35
cis-1,2-Dichloroethene	6.99		1.0	ug/L	5.00	ND	140	28.9-177	0.0572	35
Chloroform	8.21		1.0	ug/L	5.00	ND	164	47-184	0.0122	35
1,1,1-Trichloroethane (TCA)	8.79		1.0	ug/L	5.00	ND	176	39.8-212	4.56	35
Carbon tetrachloride	9.28		1.0	ug/L	5.00	ND	186	19.1-230	6.42	35
1,1-Dichloropropene	6.97		1.0	ug/L	5.00	ND	139	42.3-150	13.0	35
Benzene	6.87		1.0	ug/L	5.00	ND	137	55.1-155	0.189	35
1,2-Dichloroethane (EDC)	9.35		1.0	ug/L	5.00	ND	187	38.2-189	6.65	35
Trichloroethene (TCE)	6.65	S1	2.0	ug/L	5.00	ND	133	58.3-130	0.619	35
1,2-Dichloropropane	5.75		1.0	ug/L	5.00	ND	115	52-153	4.31	35
Dibromomethane	6.89		1.0	ug/L	5.00	ND	138	31.1-193	14.5	35
Bromodichloromethane	6.78		1.0	ug/L	5.00	ND	136	35.6-186	0.443	35
cis-1,3-Dichloropropene	5.96		1.0	ug/L	5.00	ND	119	26.7-140	7.03	35
Toluene	6.91		2.0	ug/L	5.00	ND	138	23-175	9.62	35
Trans-1,3-Dichloropropene	4.97		1.0	ug/L	5.00	ND	99.4	31-146	6.80	35
1,1,2-Trichloroethane	5.27		1.0	ug/L	5.00	ND	105	40.5-182	4.36	35
Tetrachloroethene (PCE)	7.49		2.0	ug/L	5.00	ND	150	32-159	4.06	35
1,3-Dichloropropane	5.82		1.0	ug/L	5.00	ND	116	39.4-151	7.40	35
Dibromochloromethane	7.14		1.0	ug/L	5.00	ND	143	33-174	1.45	35
1,2-Dibromoethane (EDB)	7.12		2.0	ug/L	5.00	ND	142	44.7-143	6.07	35
Chlorobenzene	7.17		1.0	ug/L	5.00	ND	143	62.5-144	4.34	35
Ethylbenzene	6.54		1.0	ug/L	5.00	ND	131	57-127	3.87	35
1,1,1,2-Tetrachloroethane	7.71		1.0	ug/L	5.00	ND	154	34.6-196	5.11	35
Total Xylenes	18.7		2.0	ug/L	15.0	ND	125	44.1-133	10.1	35
Styrene	5.44		1.0	ug/L	5.00	ND	109	45.6-118	5.32	35
Bromoform	7.69		1.0	ug/L	5.00	ND	154	15.6-174	5.16	35
Isopropylbenzene	6.56		4.0	ug/L	5.00	ND	131	22.8-157	4.63	35
1,1,2,2-Tetrachloroethane	5.70		1.0	ug/L	5.00	ND	114	32.9-193	1.52	35
Bromobenzene	6.17		1.0	ug/L	5.00	ND	123	48.6-163	0.936	35



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

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 Dup (BYJ0128-MSD1)		Parent: L24J088-04			Prepared & Analyzed: 10/31/2024					
n-Propylbenzene	5.03		1.0	ug/L	5.00	ND	101	28.2-165	0.832	35
1,2,3-Trichloropropane	6.60		1.0	ug/L	5.00	ND	132	31.4-205	2.22	35
2-Chlorotoluene	4.88		1.0	ug/L	5.00	ND	97.6	39.7-151	14.2	35
1,3,5-Trimethylbenzene	5.10		1.0	ug/L	5.00	ND	102	36.4-158	6.10	35
4-Chlorotoluene	4.99		1.0	ug/L	5.00	ND	99.9	40.5-147	14.5	35
tert-Butylbenzene	4.90		1.0	ug/L	5.00	ND	98.0	27.8-152	7.84	35
1,2,4-Trimethylbenzene	5.87		1.0	ug/L	5.00	ND	117	33.8-161	13.3	35
sec-Butylbenzene	5.29		1.0	ug/L	5.00	ND	106	21.4-179	3.88	35
p-Isopropyltoluene	4.50		1.0	ug/L	5.00	ND	89.9	27.8-146	6.10	35
1,3-Dichlorobenzene	6.16		1.0	ug/L	5.00	ND	123	72.3-130	5.23	35
1,4-Dichlorobenzene	6.75		1.0	ug/L	5.00	ND	135	68.5-136	8.49	35
n-Butylbenzene	5.46		1.0	ug/L	5.00	ND	109	25.9-168	5.88	35
1,2-Dichlorobenzene	6.29		1.0	ug/L	5.00	ND	126	63.7-129	3.02	35
1,2-Dibromo-3-Chloropropane	7.06		2.0	ug/L	5.00	ND	141	10-207	1.70	35
1,2,4-Trichlorobenzene	6.04		2.0	ug/L	5.00	ND	121	14.9-183	8.91	35
Hexachlorobutadiene	8.01		5.0	ug/L	5.00	ND	160	28.9-211	3.52	35
Naphthalene	5.58		5.0	ug/L	5.00	ND	112	22.3-211	4.16	35
1,2,3-Trichlorobenzene	5.12		5.0	ug/L	5.00	ND	102	10-224	0.0196	35
Surrogate: Dibromofluoromethane			27.6	ug/L	20.0		138	49.6-175		
Surrogate: 1,2-Dichloroethane-d4			31.3	ug/L	20.0		156	31.7-194		
Surrogate: Toluene-d8			25.4	ug/L	20.0		127	52.9-135		
Surrogate: 4-Bromofluorobenzene		S4	26.2	ug/L	20.0		131	50.8-121		



Libby Environmental, Inc.

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

Project: 5468, Springfield
Project Number: 027409
Project Manager: Laura Skow

City/State: Springfield, WA
Work Order: L24J088
Reported: 11/05/2024 12:51

Quality Control (Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BYJ0128 - VOA										
Blank (BYJ0128-BLK1)										
Gasoline	ND		100	ug/L						
<i>Surrogate: Toluene-d8</i>			25.0	ug/L	20.0		125	52.9-135		
Prepared & Analyzed: 10/31/2024										
LCS (BYJ0128-BS1)										
Gasoline	320		100	ug/L				80-120		
<i>Surrogate: Toluene-d8</i>			18.6	ug/L	20.0		93.2	52.9-135		
Prepared & Analyzed: 10/31/2024										
Duplicate (BYJ0128-DUP1)										
Gasoline	ND		100	ug/L		ND				35
<i>Surrogate: Toluene-d8</i>			23.6	ug/L	20.0		118	52.9-135		
Parent: L24J088-04 Prepared & Analyzed: 10/31/2024										
Matrix Spike (BYJ0128-MS1)										
<i>Surrogate: Toluene-d8</i>			25.2	ug/L	20.0		126	52.9-135		
Parent: L24J088-04 Prepared & Analyzed: 10/31/2024										
Matrix Spike Dup (BYJ0128-MSD1)										
<i>Surrogate: Toluene-d8</i>			25.4	ug/L	20.0		127	52.9-135		
Parent: L24J088-04 Prepared & Analyzed: 10/31/2024										

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

5468, Springfield Project

Montrose Environmental Group, Inc.

Libby Work Order # L24J088

Date Received 10/30/2024

Time Received 11:30 AM

Received By MF

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) -0.1 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 2.6 °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: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments. _____

Montrose Environmental
Laura Skow
4150 B PI NW Suite 106
Auburn, WA 98001

RE: 5468 Springfield, PROJ-027409/5468 Springfield
Work Order Number: 2410590

November 08, 2024

Attention Laura Skow:

Fremont Analytical, Inc, an Alliance Technical Group company, received 3 sample(s) on 10/30/2024 for the analyses presented in the following report.

Helium by GC/TCD

Major Gases by EPA Method 3C

Volatile Organic Compounds by EPA TO-15

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Revision v1





Date: 01/21/2025

CLIENT: Montrose Environmental
Project: 5468 Springfield
Work Order: 2410590

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2410590-001	SV-1	10/29/2024 3:41 PM	10/30/2024 2:30 PM
2410590-002	SV-2	10/29/2024 4:26 PM	10/30/2024 2:30 PM
2410590-003	DUP-1	10/29/2024 4:26 PM	10/30/2024 2:30 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Montrose Environmental

Project: 5468 Springfield

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Major gases are reported as % ratio of the Major Gases analyzed (Carbon dioxide, Carbon Monoxide, Methane, Nitrogen, Oxygen and Hydrogen).

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS). The LCS is processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Notations:

The estimated BTU calculation is based off of the methane result.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Gasoline Range Organics reported in ug/m³ should be considered an estimate. The estimated molecular weight of gasoline used in the equation = 100

1/21/2025: Rev1 includes a batch canister cleaning certificate per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Montrose Environmental
Project: 5468 Springfield

Lab ID: 2410590-001
Client Sample ID: SV-1

Collection Date: 10/29/2024 3:41:00 PM
Matrix: Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Helium by GC/TCD</u>					Batch ID: R95597	Analyst: CO
Helium	ND	0.300	D	%	1.5	11/8/2024 3:09:00 PM
<u>Major Gases by EPA Method 3C</u>					Batch ID: R95593	Analyst: CO
Carbon Dioxide	1.54	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
Carbon Monoxide	ND	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
Methane	ND	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
Nitrogen	73.9	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
Oxygen	24.5	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
Hydrogen	ND	0.0750	D	%	1.5	11/8/2024 12:09:00 PM
BTU	ND		D	BTU/ft ³	1.5	11/8/2024 12:09:00 PM

Lab ID: 2410590-002
Client Sample ID: SV-2

Collection Date: 10/29/2024 4:26:00 PM
Matrix: Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Helium by GC/TCD</u>					Batch ID: R95597	Analyst: CO
Helium	ND	0.300	D	%	1.5	11/8/2024 3:18:00 PM
<u>Major Gases by EPA Method 3C</u>					Batch ID: R95593	Analyst: CO
Carbon Dioxide	2.69	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
Carbon Monoxide	ND	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
Methane	ND	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
Nitrogen	73.5	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
Oxygen	23.8	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
Hydrogen	ND	0.0750	D	%	1.5	11/8/2024 12:23:00 PM
BTU	ND		D	BTU/ft ³	1.5	11/8/2024 12:23:00 PM

CLIENT: Montrose Environmental
Project: 5468 Springfield

Lab ID: 2410590-003
Client Sample ID: DUP-1

Collection Date: 10/29/2024 4:26:00 PM
Matrix: Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Helium by GC/TCD</u>					Batch ID: R95597	Analyst: CO
Helium	ND	0.300	D	%	1.5	11/8/2024 3:37:00 PM
<u>Major Gases by EPA Method 3C</u>					Batch ID: R95593	Analyst: CO
Carbon Dioxide	2.54	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
Carbon Monoxide	ND	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
Methane	ND	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
Nitrogen	73.8	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
Oxygen	23.7	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
Hydrogen	ND	0.0750	D	%	1.5	11/8/2024 12:48:00 PM
BTU	ND		D	BTU/ft ³	1.5	11/8/2024 12:48:00 PM



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-1

Date Sampled: 10/29/2024

Lab ID: 2410590-001A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)				
<u>Volatile Organic Compounds by EPA TO-15</u>								
1,1,1-Trichloroethane	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1,2,2-Tetrachloroethane	<0.200	<1.37	0.200	1.37		EPA-TO-15	11/07/2024	LB
CFC-113	<0.600	<4.60	0.600	4.60		EPA-TO-15	11/07/2024	LB
1,1,2-Trichloroethane (TCA)	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	11/07/2024	LB
1,2,4-Trichlorobenzene	<0.600	<4.45	0.600	4.45		EPA-TO-15	11/07/2024	LB
1,2,4-Trimethylbenzene	<2.00	<9.83	2.00	9.83		EPA-TO-15	11/07/2024	LB
1,2-Dibromoethane (EDB)***	<0.00214	<0.0164	0.00214	0.0164		EPA-TO-15	11/07/2024	LB
1,2-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,2-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,2-Dichloropropane	<0.200	<0.924	0.200	0.924		EPA-TO-15	11/07/2024	LB
1,3,5-Trimethylbenzene	<0.600	<2.95	0.600	2.95		EPA-TO-15	11/07/2024	LB
1,3-Butadiene	<0.200	<0.442	0.200	0.442		EPA-TO-15	11/07/2024	LB
1,3-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dioxane	<0.600	<2.16	0.600	2.16		EPA-TO-15	11/07/2024	LB
(MEK) 2-Butanone	0.613	1.81	0.600	1.77		EPA-TO-15	11/07/2024	LB
2-Hexanone	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Isopropyl Alcohol	<2.00	<4.92	2.00	4.92		EPA-TO-15	11/07/2024	LB
4-Methyl-2-pentanone (MIBK)	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Acetone	7.86	18.7	4.00	9.50		EPA-TO-15	11/07/2024	LB
Acrolein***	<0.0136	<0.0312	0.0136	0.0312		EPA-TO-15	11/07/2024	LB
Benzene	0.351	1.12	0.0400	0.128		EPA-TO-15	11/07/2024	LB
Benzyl chloride	<0.600	<3.11	0.600	3.11		EPA-TO-15	11/07/2024	LB
Dichlorobromomethane	<0.200	<1.34	0.200	1.34		EPA-TO-15	11/07/2024	LB
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/07/2024	LB
Bromomethane	<0.200	<0.777	0.200	0.777		EPA-TO-15	11/07/2024	LB
Carbon disulfide	7.63	23.8	2.00	6.23		EPA-TO-15	11/07/2024	LB
Carbon tetrachloride	<0.0400	<0.252	0.0400	0.252		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-1

Date Sampled: 10/29/2024

Lab ID: 2410590-001A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration	Reporting Limit	Qual	Method	Date/Analyst
<u>Volatile Organic Compounds by EPA TO-15</u>					
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)	
Chlorobenzene	<0.0400	<0.184	0.0400	0.184	EPA-TO-15 11/07/2024 LB
Dibromochloromethane	<0.200	<1.70	0.200	1.70	EPA-TO-15 11/07/2024 LB
Chloroethane	<0.600	<1.58	0.600	1.58	EPA-TO-15 11/07/2024 LB
Chloroform	<0.0400	<0.195	0.0400	0.195	EPA-TO-15 11/07/2024 LB
Chloromethane	0.403	0.833	0.200	0.413	EPA-TO-15 11/07/2024 LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793	EPA-TO-15 11/07/2024 LB
cis-1,3-dichloropropene	<0.200	<0.908	0.200	0.908	EPA-TO-15 11/07/2024 LB
Cyclohexane	<0.600	<2.07	0.600	2.07	EPA-TO-15 11/07/2024 LB
Dichlorodifluoromethane (CFC-12)	0.498	2.46	0.200	0.989	EPA-TO-15 11/07/2024 LB
Dichlorotetrafluoroethane (CFC-114)	<0.600	<4.19	0.600	4.19	EPA-TO-15 11/07/2024 LB
Ethyl acetate	<2.00	<7.21	2.00	7.21	EPA-TO-15 11/07/2024 LB
Ethylbenzene	<2.00	<8.68	2.00	8.68	EPA-TO-15 11/07/2024 LB
Gasoline Range Organics	<57.6	<236	57.6	236	EPA-TO-15 11/07/2024 LB
Heptane	<0.600	<2.46	0.600	2.46	EPA-TO-15 11/07/2024 LB
Hexachlorobutadiene	<0.600	<6.40	0.600	6.40	EPA-TO-15 11/07/2024 LB
m,p-Xylene	<4.00	<17.4	4.00	17.4	EPA-TO-15 11/07/2024 LB
Methyl methacrylate	<2.00	<8.19	2.00	8.19	EPA-TO-15 11/07/2024 LB
Methylene chloride	<0.600	<2.08	0.600	2.08	EPA-TO-15 11/07/2024 LB
Naphthalene	0.0738	0.387	0.0560	0.294	EPA-TO-15 11/07/2024 LB
n-Hexane	<2.00	<7.05	2.00	7.05	EPA-TO-15 11/07/2024 LB
o-Xylene	<2.00	<8.68	2.00	8.68	EPA-TO-15 11/07/2024 LB
4-Ethyltoluene	<0.600	<2.95	0.600	2.95	EPA-TO-15 11/07/2024 LB
Propylene	<0.600	<1.03	0.600	1.03	EPA-TO-15 11/07/2024 LB
Styrene	<0.600	<2.56	0.600	2.56	EPA-TO-15 11/07/2024 LB
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721	EPA-TO-15 11/07/2024 LB
Tetrachloroethene (PCE)	<2.00	<13.6	2.00	13.6	EPA-TO-15 11/07/2024 LB
Tetrahydrofuran	<0.600	<1.77	0.600	1.77	EPA-TO-15 11/07/2024 LB
Toluene	3.27	12.3	2.00	7.54	EPA-TO-15 11/07/2024 LB
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793	EPA-TO-15 11/07/2024 LB
trans-1,3-dichloropropene	<0.600	<2.72	0.600	2.72	EPA-TO-15 11/07/2024 LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-1

Date Sampled: 10/29/2024

Lab ID: 2410590-001A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA TO-15</u>								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichloroethene (TCE)	<0.0400	<0.215	0.0400	0.215		EPA-TO-15	11/07/2024	LB
Trichlorofluoromethane (CFC-11)	0.217	1.22	0.200	1.12		EPA-TO-15	11/07/2024	LB
Vinyl acetate	<0.600	<2.11	0.600	2.11		EPA-TO-15	11/07/2024	LB
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/07/2024	LB
Surr: 4-Bromofluorobenzene	92.3 %Rec	--	70-130	--		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-2

Date Sampled: 10/29/2024

Lab ID: 2410590-002A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)				
<u>Volatile Organic Compounds by EPA TO-15</u>								
1,1,1-Trichloroethane	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1,2,2-Tetrachloroethane	<0.200	<1.37	0.200	1.37		EPA-TO-15	11/07/2024	LB
CFC-113	<0.600	<4.60	0.600	4.60		EPA-TO-15	11/07/2024	LB
1,1,2-Trichloroethane (TCA)	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	11/07/2024	LB
1,2,4-Trichlorobenzene	<0.600	<4.45	0.600	4.45		EPA-TO-15	11/07/2024	LB
1,2,4-Trimethylbenzene	<2.00	<9.83	2.00	9.83		EPA-TO-15	11/07/2024	LB
1,2-Dibromoethane (EDB)***	<0.00214	<0.0164	0.00214	0.0164		EPA-TO-15	11/07/2024	LB
1,2-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,2-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,2-Dichloropropane	<0.200	<0.924	0.200	0.924		EPA-TO-15	11/07/2024	LB
1,3,5-Trimethylbenzene	<0.600	<2.95	0.600	2.95		EPA-TO-15	11/07/2024	LB
1,3-Butadiene	<0.200	<0.442	0.200	0.442		EPA-TO-15	11/07/2024	LB
1,3-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dioxane	<0.600	<2.16	0.600	2.16		EPA-TO-15	11/07/2024	LB
(MEK) 2-Butanone	1.47	4.35	0.600	1.77		EPA-TO-15	11/07/2024	LB
2-Hexanone	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Isopropyl Alcohol	3.59	8.82	2.00	4.92		EPA-TO-15	11/07/2024	LB
4-Methyl-2-pentanone (MIBK)	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Acetone	5.98	14.2	4.00	9.50		EPA-TO-15	11/07/2024	LB
Acrolein***	<0.0136	<0.0312	0.0136	0.0312		EPA-TO-15	11/07/2024	LB
Benzene	0.258	0.825	0.0400	0.128		EPA-TO-15	11/07/2024	LB
Benzyl chloride	<0.600	<3.11	0.600	3.11		EPA-TO-15	11/07/2024	LB
Dichlorobromomethane	<0.200	<1.34	0.200	1.34		EPA-TO-15	11/07/2024	LB
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/07/2024	LB
Bromomethane	<0.200	<0.777	0.200	0.777		EPA-TO-15	11/07/2024	LB
Carbon disulfide	4.03	12.5	2.00	6.23		EPA-TO-15	11/07/2024	LB
Carbon tetrachloride	<0.0400	<0.252	0.0400	0.252		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-2

Date Sampled: 10/29/2024

Lab ID: 2410590-002A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA TO-15</u>								
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)				
Chlorobenzene	<0.0400	<0.184	0.0400	0.184		EPA-TO-15	11/07/2024	LB
Dibromochloromethane	<0.200	<1.70	0.200	1.70		EPA-TO-15	11/07/2024	LB
Chloroethane	<0.600	<1.58	0.600	1.58		EPA-TO-15	11/07/2024	LB
Chloroform	<0.0400	<0.195	0.0400	0.195		EPA-TO-15	11/07/2024	LB
Chloromethane	0.253	0.523	0.200	0.413		EPA-TO-15	11/07/2024	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/07/2024	LB
cis-1,3-dichloropropene	<0.200	<0.908	0.200	0.908		EPA-TO-15	11/07/2024	LB
Cyclohexane	<0.600	<2.07	0.600	2.07		EPA-TO-15	11/07/2024	LB
Dichlorodifluoromethane (CFC-12)	0.464	2.30	0.200	0.989		EPA-TO-15	11/07/2024	LB
Dichlorotetrafluoroethane (CFC-114)	<0.600	<4.19	0.600	4.19		EPA-TO-15	11/07/2024	LB
Ethyl acetate	<2.00	<7.21	2.00	7.21		EPA-TO-15	11/07/2024	LB
Ethylbenzene	<2.00	<8.68	2.00	8.68		EPA-TO-15	11/07/2024	LB
Gasoline Range Organics	<57.6	<236	57.6	236		EPA-TO-15	11/07/2024	LB
Heptane	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Hexachlorobutadiene	<0.600	<6.40	0.600	6.40		EPA-TO-15	11/07/2024	LB
m,p-Xylene	<4.00	<17.4	4.00	17.4		EPA-TO-15	11/07/2024	LB
Methyl methacrylate	<2.00	<8.19	2.00	8.19		EPA-TO-15	11/07/2024	LB
Methylene chloride	1.12	3.89	0.600	2.08		EPA-TO-15	11/07/2024	LB
Naphthalene	0.117	0.611	0.0560	0.294		EPA-TO-15	11/07/2024	LB
n-Hexane	<2.00	<7.05	2.00	7.05		EPA-TO-15	11/07/2024	LB
o-Xylene	<2.00	<8.68	2.00	8.68		EPA-TO-15	11/07/2024	LB
4-Ethyltoluene	<0.600	<2.95	0.600	2.95		EPA-TO-15	11/07/2024	LB
Propylene	1.28	2.20	0.600	1.03		EPA-TO-15	11/07/2024	LB
Styrene	<0.600	<2.56	0.600	2.56		EPA-TO-15	11/07/2024	LB
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	11/07/2024	LB
Tetrachloroethene (PCE)	<2.00	<13.6	2.00	13.6		EPA-TO-15	11/07/2024	LB
Tetrahydrofuran	<0.600	<1.77	0.600	1.77		EPA-TO-15	11/07/2024	LB
Toluene	3.16	11.9	2.00	7.54		EPA-TO-15	11/07/2024	LB
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/07/2024	LB
trans-1,3-dichloropropene	<0.600	<2.72	0.600	2.72		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: SV-2

Date Sampled: 10/29/2024

Lab ID: 2410590-002A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA TO-15</u>								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichloroethene (TCE)	<0.0400	<0.215	0.0400	0.215		EPA-TO-15	11/07/2024	LB
Trichlorofluoromethane (CFC-11)	<0.200	<1.12	0.200	1.12		EPA-TO-15	11/07/2024	LB
Vinyl acetate	<0.600	<2.11	0.600	2.11		EPA-TO-15	11/07/2024	LB
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/07/2024	LB
Surr: 4-Bromofluorobenzene	90.3 %Rec	--	70-130	--		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: DUP-1

Date Sampled: 10/29/2024

Lab ID: 2410590-003A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)				
<u>Volatile Organic Compounds by EPA TO-15</u>								
1,1,1-Trichloroethane	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1,2,2-Tetrachloroethane	<0.200	<1.37	0.200	1.37		EPA-TO-15	11/07/2024	LB
CFC-113	<0.600	<4.60	0.600	4.60		EPA-TO-15	11/07/2024	LB
1,1,2-Trichloroethane (TCA)	<0.0400	<0.218	0.0400	0.218		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,1-Dichloroethene (DCE)	<0.0400	<0.159	0.0400	0.159		EPA-TO-15	11/07/2024	LB
1,2,4-Trichlorobenzene	<0.600	<4.45	0.600	4.45		EPA-TO-15	11/07/2024	LB
1,2,4-Trimethylbenzene	<2.00	<9.83	2.00	9.83		EPA-TO-15	11/07/2024	LB
1,2-Dibromoethane (EDB)***	<0.00214	<0.0164	0.00214	0.0164		EPA-TO-15	11/07/2024	LB
1,2-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,2-Dichloroethane	<0.0400	<0.162	0.0400	0.162		EPA-TO-15	11/07/2024	LB
1,2-Dichloropropane	<0.200	<0.924	0.200	0.924		EPA-TO-15	11/07/2024	LB
1,3,5-Trimethylbenzene	<0.600	<2.95	0.600	2.95		EPA-TO-15	11/07/2024	LB
1,3-Butadiene	<0.200	<0.442	0.200	0.442		EPA-TO-15	11/07/2024	LB
1,3-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dichlorobenzene	<0.200	<1.20	0.200	1.20		EPA-TO-15	11/07/2024	LB
1,4-Dioxane	<0.600	<2.16	0.600	2.16		EPA-TO-15	11/07/2024	LB
(MEK) 2-Butanone	<0.600	<1.77	0.600	1.77		EPA-TO-15	11/07/2024	LB
2-Hexanone	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Isopropyl Alcohol	<2.00	<4.92	2.00	4.92		EPA-TO-15	11/07/2024	LB
4-Methyl-2-pentanone (MIBK)	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Acetone	<4.00	<9.50	4.00	9.50		EPA-TO-15	11/07/2024	LB
Acrolein***	<0.0136	<0.0312	0.0136	0.0312		EPA-TO-15	11/07/2024	LB
Benzene	0.298	0.951	0.0400	0.128		EPA-TO-15	11/07/2024	LB
Benzyl chloride	<0.600	<3.11	0.600	3.11		EPA-TO-15	11/07/2024	LB
Dichlorobromomethane	<0.200	<1.34	0.200	1.34		EPA-TO-15	11/07/2024	LB
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/07/2024	LB
Bromomethane	<0.200	<0.777	0.200	0.777		EPA-TO-15	11/07/2024	LB
Carbon disulfide	<2.00	<6.23	2.00	6.23		EPA-TO-15	11/07/2024	LB
Carbon tetrachloride	<0.0400	<0.252	0.0400	0.252		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: DUP-1

Date Sampled: 10/29/2024

Lab ID: 2410590-003A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
	(ppbv)	(ug/m ³)	(ppbv)	(ug/m ³)				
<u>Volatile Organic Compounds by EPA TO-15</u>								
Chlorobenzene	<0.0400	<0.184	0.0400	0.184		EPA-TO-15	11/07/2024	LB
Dibromochloromethane	<0.200	<1.70	0.200	1.70		EPA-TO-15	11/07/2024	LB
Chloroethane	<0.600	<1.58	0.600	1.58		EPA-TO-15	11/07/2024	LB
Chloroform	<0.0400	<0.195	0.0400	0.195		EPA-TO-15	11/07/2024	LB
Chloromethane	0.256	0.529	0.200	0.413		EPA-TO-15	11/07/2024	LB
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/07/2024	LB
cis-1,3-dichloropropene	<0.200	<0.908	0.200	0.908		EPA-TO-15	11/07/2024	LB
Cyclohexane	<0.600	<2.07	0.600	2.07		EPA-TO-15	11/07/2024	LB
Dichlorodifluoromethane (CFC-12)	0.482	2.38	0.200	0.989		EPA-TO-15	11/07/2024	LB
Dichlorotetrafluoroethane (CFC-114)	<0.600	<4.19	0.600	4.19		EPA-TO-15	11/07/2024	LB
Ethyl acetate	<2.00	<7.21	2.00	7.21		EPA-TO-15	11/07/2024	LB
Ethylbenzene	<2.00	<8.68	2.00	8.68		EPA-TO-15	11/07/2024	LB
Gasoline Range Organics	<57.6	<236	57.6	236		EPA-TO-15	11/07/2024	LB
Heptane	<0.600	<2.46	0.600	2.46		EPA-TO-15	11/07/2024	LB
Hexachlorobutadiene	<0.600	<6.40	0.600	6.40		EPA-TO-15	11/07/2024	LB
m,p-Xylene	<4.00	<17.4	4.00	17.4		EPA-TO-15	11/07/2024	LB
Methyl methacrylate	<2.00	<8.19	2.00	8.19		EPA-TO-15	11/07/2024	LB
Methylene chloride	<0.600	<2.08	0.600	2.08		EPA-TO-15	11/07/2024	LB
Naphthalene	0.0855	0.448	0.0560	0.294		EPA-TO-15	11/07/2024	LB
n-Hexane	<2.00	<7.05	2.00	7.05		EPA-TO-15	11/07/2024	LB
o-Xylene	<2.00	<8.68	2.00	8.68		EPA-TO-15	11/07/2024	LB
4-Ethyltoluene	<0.600	<2.95	0.600	2.95		EPA-TO-15	11/07/2024	LB
Propylene	<0.600	<1.03	0.600	1.03		EPA-TO-15	11/07/2024	LB
Styrene	<0.600	<2.56	0.600	2.56		EPA-TO-15	11/07/2024	LB
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	11/07/2024	LB
Tetrachloroethene (PCE)	<2.00	<13.6	2.00	13.6		EPA-TO-15	11/07/2024	LB
Tetrahydrofuran	<0.600	<1.77	0.600	1.77		EPA-TO-15	11/07/2024	LB
Toluene	3.57	13.5	2.00	7.54		EPA-TO-15	11/07/2024	LB
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/07/2024	LB
trans-1,3-dichloropropene	<0.600	<2.72	0.600	2.72		EPA-TO-15	11/07/2024	LB



Client: Montrose Environmental

WorkOrder: 2410590

Project: 5468 Springfield

Client Sample ID: DUP-1

Date Sampled: 10/29/2024

Lab ID: 2410590-003A

Date Received: 10/30/2024

Sample Type: Summa Canister

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
<u>Volatile Organic Compounds by EPA TO-15</u>								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichloroethene (TCE)	<0.0400	<0.215	0.0400	0.215		EPA-TO-15	11/07/2024	LB
Trichlorofluoromethane (CFC-11)	<0.200	<1.12	0.200	1.12		EPA-TO-15	11/07/2024	LB
Vinyl acetate	<0.600	<2.11	0.600	2.11		EPA-TO-15	11/07/2024	LB
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/07/2024	LB
Surr: 4-Bromofluorobenzene	92.7 %Rec	--	70-130	--		EPA-TO-15	11/07/2024	LB

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Helium by GC/TCD

Sample ID: LCS-R95597		SampType: LCS			Units: %			Prep Date: 11/8/2024		RunNo: 95597		
Client ID: LCSW		Batch ID: R95597						Analysis Date: 11/8/2024		SeqNo: 1995017		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	4.84	0.200	5.000	0	96.7	80	120					

Sample ID: MB-R95597		SampType: MBLK			Units: %			Prep Date: 11/8/2024		RunNo: 95597		
Client ID: MBLKW		Batch ID: R95597						Analysis Date: 11/8/2024		SeqNo: 1995018		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	ND	0.200										

Sample ID: 2410590-001AREP		SampType: REP			Units: %			Prep Date: 11/8/2024		RunNo: 95597		
Client ID: SV-1		Batch ID: R95597						Analysis Date: 11/8/2024		SeqNo: 1995014		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Helium	ND	0.300						0		30	D	

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Major Gases by EPA Method 3C

Sample ID: LCS-R95593	SampType: LCS	Units: %			Prep Date: 11/8/2024	RunNo: 95593					
Client ID: LCSW	Batch ID: R95593				Analysis Date: 11/8/2024	SeqNo: 1994906					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	100	0.0500	100.0	0	100	90	110				
Carbon Monoxide	100	0.0500	100.0	0	100	90	110				
Methane	100	0.0500	100.0	0	100	90	110				
Nitrogen	107	0.0500	100.0	0	107	90	110				
Oxygen	104	0.0500	100.0	0	104	90	110				
Hydrogen	96.4	0.0500	100.0	0	96.4	90	110				

Sample ID: 2411079-002AREP	SampType: REP	Units: %			Prep Date: 11/8/2024	RunNo: 95593					
Client ID: BATCH	Batch ID: R95593				Analysis Date: 11/8/2024	SeqNo: 1994905					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	1.91	0.0500						1.895	0.721	30	
Carbon Monoxide	ND	0.0500						0		30	
Methane	98.0	0.0500						97.98	0.00255	30	
Nitrogen	0.105	0.0500						0.1157	9.55	30	
Oxygen	ND	0.0500						0		30	
Hydrogen	ND	0.0500						0		30	
BTU	991							990.9	0.00255	30	

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: LCS-R95587	SampType: LCS	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587
Client ID: LCSW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994847

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	74.6	14.4	72.00	0	104	70	130				
Propylene	2.13	0.150	2.000	0	106	70	130				
Dichlorodifluoromethane (CFC-12)	2.13	0.0500	2.000	0	106	70	130				
Chloromethane	2.24	0.0500	2.000	0	112	70	130				
Dichlorotetrafluoroethane (CFC-114)	2.15	0.150	2.000	0	107	70	130				
Vinyl chloride	2.12	0.0500	2.000	0	106	70	130				
1,3-Butadiene	2.10	0.0500	2.000	0	105	70	130				
Bromomethane	2.11	0.0500	2.000	0	106	70	130				
Trichlorofluoromethane (CFC-11)	2.07	0.0500	2.000	0	103	70	130				
Chloroethane	2.13	0.150	2.000	0	106	70	130				
Acrolein***	2.05	0.00340	2.000	0	103	70	130				
1,1-Dichloroethene (DCE)	2.07	0.0100	2.000	0	104	70	130				
Acetone	2.26	1.00	2.000	0	113	70	130				
Isopropyl Alcohol	2.18	0.500	2.000	0	109	70	130				
Methylene chloride	2.03	0.150	2.000	0	101	70	130				
Carbon disulfide	2.06	0.500	2.000	0	103	70	130				
trans-1,2-Dichloroethene	2.08	0.0500	2.000	0	104	70	130				
Methyl tert-butyl ether (MTBE)	2.08	0.0500	2.000	0	104	70	130				
n-Hexane	2.07	0.500	2.000	0	104	70	130				
1,1-Dichloroethane	2.07	0.0100	2.000	0	104	70	130				
Vinyl acetate	2.21	0.150	2.000	0	110	70	130				
cis-1,2-Dichloroethene	1.97	0.0500	2.000	0	98.6	70	130				
(MEK) 2-Butanone	2.08	0.150	2.000	0	104	70	130				
Ethyl acetate	2.02	0.500	2.000	0	101	70	130				
Chloroform	2.04	0.0100	2.000	0	102	70	130				
Tetrahydrofuran	2.05	0.150	2.000	0	102	70	130				
1,1,1-Trichloroethane	2.01	0.0100	2.000	0	101	70	130				
Carbon tetrachloride	2.01	0.0100	2.000	0	100	70	130				
1,2-Dichloroethane	2.04	0.0100	2.000	0	102	70	130				
Benzene	2.03	0.0100	2.000	0	101	70	130				
Cyclohexane	2.10	0.150	2.000	0	105	70	130				
Trichloroethene (TCE)	2.02	0.0100	2.000	0	101	70	130				

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: LCS-R95587	SampType: LCS	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: LCSW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994847							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	2.04	0.0500	2.000	0	102	70	130				
Methyl methacrylate	1.99	0.500	2.000	0	99.3	70	130				
Dichlorobromomethane	1.94	0.0500	2.000	0	97.1	70	130				
1,4-Dioxane	2.03	0.150	2.000	0	102	70	130				
cis-1,3-dichloropropene	1.92	0.0500	2.000	0	96.2	70	130				
Toluene	2.02	0.500	2.000	0	101	70	130				
trans-1,3-dichloropropene	1.93	0.150	2.000	0	96.6	70	130				
1,1,2-Trichloroethane (TCA)	1.98	0.0100	2.000	0	99.0	70	130				
Tetrachloroethene (PCE)	1.93	0.500	2.000	0	96.3	70	130				
Dibromochloromethane	1.87	0.0500	2.000	0	93.5	70	130				
1,2-Dibromoethane (EDB)***	1.94	0.000534	2.000	0	97.2	70	130				
Chlorobenzene	2.09	0.0100	2.000	0	104	70	130				
Ethylbenzene	2.00	0.500	2.000	0	99.9	70	130				
m,p-Xylene	3.96	1.00	4.000	0	98.9	70	130				
o-Xylene	1.96	0.500	2.000	0	98.0	70	130				
Styrene	1.94	0.150	2.000	0	96.8	70	130				
Bromoform	1.76	0.0500	2.000	0	88.2	70	130				
1,1,2,2-Tetrachloroethane	1.93	0.0500	2.000	0	96.5	70	130				
1,3,5-Trimethylbenzene	1.91	0.150	2.000	0	95.7	70	130				
1,2,4-Trimethylbenzene	1.99	0.500	2.000	0	99.4	70	130				
Benzyl chloride	1.81	0.150	2.000	0	90.3	70	130				
4-Ethyltoluene	1.96	0.150	2.000	0	98.1	70	130				
1,3-Dichlorobenzene	1.95	0.0500	2.000	0	97.3	70	130				
1,4-Dichlorobenzene	1.95	0.0500	2.000	0	97.5	70	130				
1,2-Dichlorobenzene	1.89	0.0500	2.000	0	94.3	70	130				
1,2,4-Trichlorobenzene	1.89	0.150	2.000	0	94.5	70	130				
Hexachlorobutadiene	1.84	0.150	2.000	0	92.1	70	130				
Naphthalene	2.22	0.0140	2.000	0	111	70	130				
2-Hexanone	2.07	0.150	2.000	0	103	70	130				
4-Methyl-2-pentanone (MIBK)	1.99	0.150	2.000	0	99.6	70	130				
CFC-113	2.06	0.150	2.000	0	103	70	130				
Heptane	2.13	0.150	2.000	0	107	70	130				

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: LCS-R95587	SampType: LCS	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: LCSW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994847							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	3.84		4.000		96.0	70	130				

Sample ID: MB-R95587	SampType: MBLK	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: MBLKW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994848							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	14.4									
Propylene	ND	0.150									
Dichlorodifluoromethane (CFC-12)	ND	0.0500									
Chloromethane	ND	0.0500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.150									
Vinyl chloride	ND	0.0500									
1,3-Butadiene	ND	0.0500									
Bromomethane	ND	0.0500									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.150									
Acrolein***	ND	0.00340									
1,1-Dichloroethene (DCE)	ND	0.0100									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	0.500									
Methylene chloride	ND	0.150									
Carbon disulfide	ND	0.500									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
n-Hexane	ND	0.500									
1,1-Dichloroethane	ND	0.0100									
Vinyl acetate	ND	0.150									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Ethyl acetate	ND	0.500									
Chloroform	ND	0.0100									

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: MB-R95587	SampType: MBLK	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: MBLKW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994848							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrahydrofuran	ND	0.150									
1,1,1-Trichloroethane	ND	0.0100									
Carbon tetrachloride	ND	0.0100									
1,2-Dichloroethane	ND	0.0100									
Benzene	ND	0.0100									
Cyclohexane	ND	0.150									
Trichloroethene (TCE)	ND	0.0100									
1,2-Dichloropropane	ND	0.0500									
Methyl methacrylate	ND	0.500									
Dichlorobromomethane	ND	0.0500									
1,4-Dioxane	ND	0.150									
cis-1,3-dichloropropene	ND	0.0500									
Toluene	ND	0.500									
trans-1,3-dichloropropene	ND	0.150									
1,1,2-Trichloroethane (TCA)	ND	0.0100									
Tetrachloroethene (PCE)	ND	0.500									
Dibromochloromethane	ND	0.0500									
1,2-Dibromoethane (EDB)***	ND	0.000534									
Chlorobenzene	ND	0.0100									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
Styrene	ND	0.150									
Bromoform	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.150									
1,2,4-Trimethylbenzene	ND	0.500									
Benzyl chloride	ND	0.150									
4-Ethyltoluene	ND	0.150									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: MB-R95587	SampType: MBLK	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: MBLKW	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994848							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.150									
Hexachlorobutadiene	ND	0.150									
Naphthalene	ND	0.0140									
2-Hexanone	ND	0.150									
4-Methyl-2-pentanone (MIBK)	ND	0.150									
CFC-113	ND	0.150									
Heptane	ND	0.150									
Surr: 4-Bromofluorobenzene	3.68		4.000		92.0	70	130				

Sample ID: 2410590-001AREP	SampType: REP	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: SV-1	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994850							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics	ND	57.6						0		25	
Propylene	ND	0.600						0		25	
Dichlorodifluoromethane (CFC-12)	0.486	0.200						0.4979	2.50	25	
Chloromethane	0.389	0.200						0.4032	3.69	25	
Dichlorotetrafluoroethane (CFC-114)	ND	0.600						0		25	
Vinyl chloride	ND	0.200						0		25	
1,3-Butadiene	ND	0.200						0		25	
Bromomethane	ND	0.200						0		25	
Trichlorofluoromethane (CFC-11)	0.207	0.200						0.2174	4.80	25	
Chloroethane	ND	0.600						0		25	
Acrolein***	ND	0.0136						0		25	
1,1-Dichloroethene (DCE)	ND	0.0400						0		25	
Acetone	7.84	4.00						7.855	0.159	25	
Isopropyl Alcohol	ND	2.00						0		25	
Methylene chloride	ND	0.600						0		25	
Carbon disulfide	7.81	2.00						7.631	2.36	25	
trans-1,2-Dichloroethene	ND	0.200						0		25	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		25	

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: 2410590-001AREP	SampType: REP	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: SV-1	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994850							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Hexane	ND	2.00						0		25	
1,1-Dichloroethane	ND	0.0400						0		25	
Vinyl acetate	ND	0.600						0		25	
cis-1,2-Dichloroethene	ND	0.200						0		25	
(MEK) 2-Butanone	ND	0.600						0.6134	8.27	25	
Ethyl acetate	ND	2.00						0		25	
Chloroform	ND	0.0400						0		25	
Tetrahydrofuran	ND	0.600						0		25	
1,1,1-Trichloroethane	ND	0.0400						0		25	
Carbon tetrachloride	ND	0.0400						0		25	
1,2-Dichloroethane	ND	0.0400						0		25	
Benzene	0.344	0.0400						0.3514	2.21	25	
Cyclohexane	ND	0.600						0		25	
Trichloroethene (TCE)	ND	0.0400						0		25	
1,2-Dichloropropane	ND	0.200						0		25	
Methyl methacrylate	ND	2.00						0		25	
Dichlorobromomethane	ND	0.200						0		25	
1,4-Dioxane	ND	0.600						0		25	
cis-1,3-dichloropropene	ND	0.200						0		25	
Toluene	3.23	2.00						3.269	1.25	25	
trans-1,3-dichloropropene	ND	0.600						0		25	
1,1,2-Trichloroethane (TCA)	ND	0.0400						0		25	
Tetrachloroethene (PCE)	ND	2.00						0		25	
Dibromochloromethane	ND	0.200						0		25	
1,2-Dibromoethane (EDB)***	ND	0.00214						0		25	
Chlorobenzene	ND	0.0400						0		25	
Ethylbenzene	ND	2.00						0		25	
m,p-Xylene	ND	4.00						0		25	
o-Xylene	ND	2.00						0		25	
Styrene	ND	0.600						0		25	
Bromoform	ND	0.200						0		25	
1,1,2,2-Tetrachloroethane	ND	0.200						0		25	

Work Order: 2410590
CLIENT: Montrose Environmental
Project: 5468 Springfield

QC SUMMARY REPORT
Volatile Organic Compounds by EPA TO-15

Sample ID: 2410590-001AREP	SampType: REP	Units: ppbv	Prep Date: 11/7/2024	RunNo: 95587							
Client ID: SV-1	Batch ID: R95587		Analysis Date: 11/7/2024	SeqNo: 1994850							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3,5-Trimethylbenzene	ND	0.600						0		25	
1,2,4-Trimethylbenzene	ND	2.00						0		25	
Benzyl chloride	ND	0.600						0		25	
4-Ethyltoluene	ND	0.600						0		25	
1,3-Dichlorobenzene	ND	0.200						0		25	
1,4-Dichlorobenzene	ND	0.200						0		25	
1,2-Dichlorobenzene	ND	0.200						0		25	
1,2,4-Trichlorobenzene	ND	0.600						0		25	
Hexachlorobutadiene	ND	0.600						0		25	
Naphthalene	0.0632	0.0560						0.07380	15.5	25	
2-Hexanone	ND	0.600						0		25	
4-Methyl-2-pentanone (MIBK)	ND	0.600						0		25	
CFC-113	ND	0.600						0		25	
Heptane	ND	0.600						0		25	
Surr: 4-Bromofluorobenzene	14.7		16.00		91.9	70	130		0		

Client Name: MONTRO	Work Order Number: 2410590
Logged by: Clare Griggs	Date Received: 10/30/2024 2:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
4. Was an attempt made to cool the samples? Yes No NA
5. Were all items received at a temperature of >2°C to 6°C * Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. Is there headspace in the VOA vials? Yes No NA
11. Did all samples containers arrive in good condition(unbroken)? Yes No
12. Does paperwork match bottle labels? Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: <input type="text"/>	Date: <input type="text"/>
By Whom: <input type="text"/>	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: <input type="text"/>	
Client Instructions: <input type="text"/>	

17. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Air Chain of Custody Record & Laboratory Services Agreement

Date: 10/29/24 Page: 1 of 1

Laboratory Project No (Internal): 2410590

Project Name: 5468 Springfield

Special Remarks:

Project No: PR05-027409/5468 Springfield
Location: 5720 Main St, Springfield, OR

Collected by: Diana Ojeda

Disposal: Samples will be disposed of one week after report is submitted unless otherwise requested. Retain volume (Specify above) Return to client

Client: Montrose
Address: 1631 E. Saint Andrew Pl
City, State, Zip: Santa Ana
Telephone: (714) 743-7855 / (714) 919-6533

Reports to (PM): Laura Skow

Fax:

Email (PM): lskow@montrose.com
Analysis: Skow@montrose - env. com

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure ("Hg)	Sample End Date & Time	Field Final Sample Pressure ("Hg)	Analysis							Comments	
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Hellum 3C Mod		VOCs 8260
SV-1	10375	S	1.4L	150CC/ MIN	1532	32	1541	7	X	X	X	X	X	X	X	X	X
	FC-3				10/29		10/29										
SV-2	11407	S	1.4L	150CC/ MIN	1615	30	1626	6	X	X	X	X	X	X	X	X	X
	FC-4				10/29		10/29										
DUP-1	11399	S	1.4L	150CC/ MIN	1615	32	1626	8	X	X	X	X	X	X	X	X	X
	FC-28				10/29		10/29										

* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE RNG = Biogas / Landfill / Digester
 ** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag
 *** Select one: BTEXN & APH PCE & Breakdown Other; specify in comments

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *Diana Ojeda* Print Name Diana Ojeda Date/Time 10/30/24
 Relinquished (Signature) *Christina Keller* Print Name Christina Keller Date/Time 10/30/24
 Turn-Around Time: Standard Next Day 3 Day Same Day 2 Day specify



Certificate of Analysis

ADDRESS

Fremont Analytical, Inc
 3600 Fremont Ave N
 Seattle, WA 98103
 TEL: 206-352-3790
 FAX: 206-352-7178
 Website: www.fremontanalytical.com

Canister ID: 11403 **Test Code:** A-CNCL **SeqNo:** 1986129
Expiration Date: **Method No:** EPA-TO-15 **Analysis Date:** 10/19/2024 4:12:39 AM

Analyte	Unit	Result	Analyte	Unit	Result	Analyte	Unit	Result
4-Bromofluorobenzene	%REC	13.5	Propylene	ppbv	< 0.600	Dichlorodifluoromethane	ppbv	< 0.200
Chloromethane	ppbv	< 0.200	Dichlorotetrafluoroethane	ppbv	< 0.600	Vinyl chloride	ppbv	< 0.200
1,3-Butadiene	ppbv	< 0.200	Bromomethane	ppbv	< 0.200	Trichlorofluoromethane	ppbv	< 0.200
Chloroethane	ppbv	< 0.600	Acrolein	ppbv	0.014	1,1-Dichloroethene	ppbv	< 0.040
Acetone	ppbv	< 4.00	2-Propanol	ppbv	< 2.00	Methylene chloride	ppbv	< 0.600
Carbon disulfide	ppbv	< 2.00	trans-1,2-Dichloroethene	ppbv	< 0.200	tert-Butyl Methyl Ether	ppbv	< 0.200
n-Hexane	ppbv	< 2.00	1,1-Dichloroethane	ppbv	< 0.040	Vinyl acetate	ppbv	< 0.600
cis-1,2-Dichloroethene	ppbv	< 0.200	2-Butanone	ppbv	< 0.600	Ethyl acetate	ppbv	< 2.00
Chloroform	ppbv	< 0.040	Tetrahydrofuran	ppbv	< 0.600	1,1,1-Trichloroethane	ppbv	< 0.040
Carbon tetrachloride	ppbv	< 0.040	1,2-Dichloroethane	ppbv	< 0.040	Benzene	ppbv	< 0.040
Cyclohexane	ppbv	< 0.600	Trichloroethene	ppbv	< 0.040	1,2-Dichloropropane	ppbv	< 0.200
Methyl methacrylate	ppbv	< 2.00	Bromodichloromethane	ppbv	< 0.200	1,4-Dioxane	ppbv	< 0.600
cis-1,3-dichloropropene	ppbv	< 0.200	Toluene	ppbv	< 2.00	trans-1,3-dichloropropene	ppbv	< 0.600
1,1,2-Trichloroethane	ppbv	< 0.040	Tetrachloroethene	ppbv	< 2.00	Chlorodibromomethane	ppbv	< 0.200
1,2-Dibromoethane	ppbv	< 0.002	Chlorobenzene	ppbv	< 0.040	Ethylbenzene	ppbv	< 2.00
m,p-Xylene	ppbv	< 4.00	o-Xylene	ppbv	< 2.00	Styrene	ppbv	< 0.600
Bromoform	ppbv	< 0.200	1,1,2,2-Tetrachloroethane	ppbv	< 0.200	1,3,5-Trimethylbenzene	ppbv	< 0.600
1,2,4-Trimethylbenzene	ppbv	< 2.00	Benzyl chloride	ppbv	< 0.600	p-Ethyltoluene	ppbv	< 0.600
1,3-Dichlorobenzene	ppbv	< 0.200	1,4-Dichlorobenzene	ppbv	< 0.200	1,2-Dichlorobenzene	ppbv	< 0.200
1,2,4-Trichlorobenzene	ppbv	< 0.600	Hexachlorobutadiene	ppbv	< 0.200	Naphthalene	ppbv	< 0.056
2-Hexanone	ppbv	< 0.600	4-Methyl-2-pentanone	ppbv	< 0.600	1,1,2-Trichloro-1,2,2-trifluoroethane	ppbv	< 0.600
Heptane	ppbv	< 0.600						

Sincerely,

Brianna Barnes
 Project Manager

Terms:
 This COA represents the analysis check of summa canisters for analyte detections prior to use.

APPENDIX G

**GROUNDWATER MONITORING AND
VAPOR SAMPLING FIELD FORMS**

WELL GAUGING DATA FORM

Site Name: UP #5468
 Project No: PROJ-027409

Location: Springfield, OR
 Date: 10/29/24
 Technician: DO

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)	NOTES
MW-1	1316	4	-	-	-	12.83	24.47	TOC	
MW-2	1310	4	odor	-	-	11.74	25.10	↓	
MW-3	1308	4	-	-	-	11.30	26.44		
MW-4	1256	4	-	-	-	10.56	24.01		
MW-5	1253	4	odor	-	-	10.79	22.72		
MW-6	1319	4	odor	-	-	10.98	24.07		
MW-7	1245	4	-	-	-	12.11	24.91		
MW-8	1250	4	-	-	-	11.20	18.04		
MW-9	1258	4	-	-	-	10.28	17.38		
MW-10	1242	4	-	-	-	11.88	18.01		
MW-11	1311	2	-	-	-	11.60	19.96		
MW-12	1313	4	-	-	-	12.53	20.09		
MW-13	1248	4	-	-	-	10.57	20.93		
MW-14 EW-1R	1321	4	odor	-	-	11.36	22.81		
EW-2R	1304	4	-	-	-	11.70	22.94		
EW-4	1305	4	odor	-	-	12.28	23.01		↓

Notes:

Notes:
 N - No
 Y - Yes
 NA - not applicable
 NM - not measured
 TOC - top of casing



LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: United Pacific #5468
 Project Number: 241029-001
 Date: 10/29/24
 ES Personnel: DO

Well Number: MW-12
 Equipment: Peristaltic Pump
 Sample ID/Time: MW-12 @ 1348
 Contractor: BTS

Well Diameter: 4 Casing Material: PVC
 Reference: Top of Casing Before After
 Depth to Water (ft) 12.53 12.55
 Depth of Well (ft) 20.09 NA
 Water Column Height (ft) 7.56 7.54
 Calculated Drawdown (ft) NA
 Depth to Top of Screen 5
 Screen Length (ft) 15
 Pump depth (ft) 16

System Volume^(a) (ml) = bladder + discharge tubing
 Volume of bladder pump (ml): _____
 Volume of flow through cell (ml): _____
 Radius of discharge tubing (ft): _____
 Length of discharge tubing (ft): _____
 System Volume (ml): _____
 Total Volume Purged (ml): 3000
 Total No. of SV Purged: _____
 Notes/Calcs: (a): flow cell disconnected before sample collection
 1ft of tubing = 10ml DUP-1 @ 1200

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
1333	600	12.54	200	1.28	170.0	454	7.32	18.88	20	Clear
1336	1200	12.54	200	1.24	172.1	454	7.13	18.82	18	Clear
1339	1800	12.55	200	1.23	172.4	453	7.00	18.89	25	Clear
1342	2400	12.55	200	1.21	171.5	453	6.95	18.88	24	Clear
1345	3000	12.55	200	1.20	170.9	453	6.92	18.87	24	Clear
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) =



LOW-FLOW GROUNDWATER SAMPLING LOG

Project Name: United Pacific #5468
 Project Number: 241029-001
 Date: 10/29/24
 ES Personnel: DO

Well Number: MW-13
 Equipment: Peristaltic Pump
 Sample ID/Time: MW-13 @ 1419
 Contractor: BTS

Well Diameter: 4 Casing Material: PVC
 Reference: Top of Casing Before After
 Depth to Water (ft) 10.57 10.61
 Depth of Well (ft) 20.93 NA
 Water Column Height (ft) 10.36 10.32
 Calculated Drawdown (ft) NA
 Depth to Top of Screen 5
 Screen Length (ft) 15
 Pump depth (ft) 20' 2"
16'

System Volume^(a) (ml) = bladder + discharge tubing
 Volume of bladder pump (ml): -----
 Volume of flow through cell (ml): -----
 Radius of discharge tubing (ft): -----
 Length of discharge tubing (ft): -----
 System Volume (ml): -----
 Total Volume Purged (ml): 3000
 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
1404	600	10.59	200	1.26	122.1	970	6.70	18.48	33	Clear
1407	1200	10.61	200	1.23	76.0	971	6.62	18.72	30	Clear
1410	1800	10.61	200	1.21	68.2	977	6.59	18.72	29	Clear
1413	2400	10.61	200	1.20	62.6	977	6.57	18.69	28	Clear
1416	3000	10.61	200	1.18	60.9	979	6.54	18.64	27	Clear
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 (Fe⁴²) =



LPH Removal Field Sheet

Project No.: PROJ-027409	United Pacific #5468
Sampler: DO	Gauging Date: 10/29/24
Well ID: MW-5	Well Diameter (in): 4
Total Well Depth (ft): 22.72	Depth to Water (ft): 10.79
Depth to Free Product: -	Thickness of Free Product (ft): -
	Equipment: -

Purge Method: In well Skimmer
Sampling Method: - Other: -

Purge Start Time: 1253 Flow Rate: - Pump Depth (ft): -

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed
1253	n/a	10.79	0.2gal	0.1gal

Did well dewater?: No	Amount of H2O actually evacuated: 0.2 gal
Sampling Time: -	Sampling Date: -
Sample ID: -	Laboratory: -
Analyzed for: -	
Equipment Blank ID: -	Duplicate ID: -
Other Information: small amount of liquid in skimmer, interface Probe detected no product in well.	

LPH Removal Field Sheet

Project No.: PROJ-027409	United Pacific #5468
Sampler: DO	Gauging Date: 10/29/24
Well ID: MW-6	Well Diameter (in): 4
Total Well Depth (ft): 24.07	Depth to Water (ft): 10.98
Depth to Free Product: -	Thickness of Free Product (ft): -
	Equipment: -

Purge Method: In well Skimmer
Sampling Method: - Other: -

Purge Start Time: 1319 Flow Rate: - Pump Depth (ft): -

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed
1319	n/a	10.98	0.2gal	0

Did well dewater?: No	Amount of H2O actually evacuated: 0.2 gal
Sampling Time: -	Sampling Date: -
Sample ID: -	Laboratory: -
Analyzed for: -	

Equipment Blank ID: - Duplicate ID: -
Other Information: Small amount of liquid in skimmer, interface. Probe detected no product in well.

LPH Removal Field Sheet

Project No.: PROJ-027409	United Pacific #5468
Sampler: <u>DD</u>	Gauging Date: <u>10/29/24</u>
Well ID: <u>EW-1R</u>	Well Diameter (in): <u>4</u>
Total Well Depth (ft): <u>22.81</u>	Depth to Water (ft): <u>11.36</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (ft): <u>-</u>
	Equipment: <u>-</u>

Purge Method: <u>-</u>
Sampling Method: <u>-</u> Other: <u>-</u>

Purge Start Time: 1321 Flow Rate: _____ Pump Depth (ft): _____

Time	DTP (feet btoc)	DTW	Water Removed	LPH Removed	
<u>1321</u>	<u>n/a</u>	<u>11.36</u>	<u>0.3</u>	<u>0</u>	<u>-</u>

Did well dewater?: <u>No</u>	Amount of H2O actually evacuated: <u>0.3</u>
Sampling Time: <u>-</u>	Sampling Date: <u>10/29/24</u>
Sample ID: <u>-</u>	Laboratory: <u>-</u>
Analyzed for: <u>-</u>	
Equipment Blank ID: <u>-</u>	Duplicate ID: <u>-</u>
Other Information: <u>Small amount of liquid in skimmer, interface</u> <u>Probe detected no product in well.</u>	

SOIL VAPOR SAMPLING DATA SHEET

Sheet ___ of ___

A. GENERAL INFORMATION

SITE: UNCLER PARKER 5408 SAMPLING DATE: 10/24/24

WELL ID: SV-1 SHIPPING DATE: _____

SAMPLER: DO

Purge Flow (mL/min): 200

One System Purge Volume (mL):
(Tubing, Sand Pack, Dry Bentonite Volumes) 0

Purge Volume Required before Sampling (mL): N/A

Purge Volume Removed (mL): 300

Sand Pack Height (inches): _____ Dry Bentonite Height (inches): _____

Sand Pack Diameter (inches): _____ Dry Bentonite Diameter (inches): _____

Tubing Length (feet): _____ Tubing Diameter (inches): _____

* Assumes 40% Sand Porosity and 50% Bentonite Porosity

B. SAMPLE PURGE INFORMATION

Collect Sample with Summa Canister. Ensure the pressure in the canisters is over -26 in. Hg when starting. Stop sample collection with -5 in. HG in Summa Canister.

Notes: 1573: PREFORM VACUUM TEST / PASS 5 Hg
1576: START PURGE
1531: STOP PURGE

REGULAR SAMPLE	DUPLICATE SAMPLE
SAMPLE ID: <u>SV-1</u>	SAMPLE ID: _____
VACUUM TEST (PASS/FAIL, VACUUM): <u>PASS / 5 Hg</u>	VACUUM TEST (PASS/FAIL, VACUUM): _____
VOC's (PID): <u>N/A</u>	VOC's from PID: _____
CANISTER SERIAL NO.: <u>10375</u> FLOW RATE (L/min): _____	CANISTER SERIAL NO.: _____ FLOW RATE (L/min): _____
SAMPLE TIME: START: <u>1532</u> END: <u>1541</u>	SAMPLE TIME: START: _____ END: _____
CANISTER PRESSURE: INITIAL: <u>32 Hg</u> FINAL: <u>7 Hg</u>	CANISTER PRESSURE: INITIAL: _____ FINAL: _____
Helium Concentration Maintained: <u>YES / 93%</u>	Helium Concentration Maintained: _____
LABORATORY: <u>FREMONT</u>	LABORATORY: _____

SAMPLER SIGNATURE

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SOIL VAPOR SAMPLING DATA SHEET

Sheet 1 of 1

A. GENERAL INFORMATION
 SITE: UNDEVELOPED PAVED 5468 SAMPLING DATE: 10/29/24
 WELL ID: S1-2 SHIPPING DATE: _____
 SAMPLER: DO

Purge Flow (mL/min): 200
 One System Purge Volume (mL):
 (Tubing, Sand Pack, Dry Bentonite Volumes) 0
 Purge Volume Required before Sampling (mL): N/A
 Purge Volume Removed (mL): 3000

Sand Pack Height (inches): _____ Dry Bentonite Height (inches): _____
 Sand Pack Diameter (inches): _____ Dry Bentonite Diameter (inches): _____
 Tubing Length (feet): _____ Tubing Diameter (inches): _____

* Assumes 40% Sand Porosity and 50% Bentonite Porosity

B. SAMPLE PURGE INFORMATION

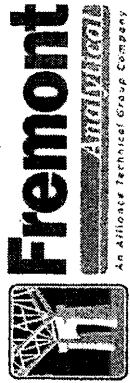
Collect Sample with Summa Canister. Ensure the pressure in the canisters is over -26 in. Hg when starting. Stop sample collection with -5 in. HG in Summa Canister.

Notes: 1550 & 1557: PREPARE VACUUM TEST / PASS G Hg
1612: PURGE START
1617: PURGE STOPPED

REGULAR SAMPLE	DUPLICATE SAMPLE
SAMPLE ID: <u>SV-2</u>	SAMPLE ID: <u>DUP-1</u>
VACUUM TEST (PASS/FAIL, VACUUM): <u>PASS / G Hg</u>	VACUUM TEST (PASS/FAIL, VACUUM): <u>PASS / G Hg</u>
VOC's (PID): <u>N/A</u>	VOC's from PID: <u>N/A</u>
CANISTER SERIAL NO.: <u>11407</u> FLOW RATE (L/min): _____	CANISTER SERIAL NO.: <u>11399</u> FLOW RATE (L/min): _____
SAMPLE TIME: START: <u>1612</u> END: <u>1626</u>	SAMPLE TIME: START: <u>1615</u> END: <u>1626</u>
CANISTER PRESSURE: INITIAL: <u>30 Hg</u> FINAL: <u>G Hg</u>	CANISTER PRESSURE: INITIAL: <u>32 Hg</u> FINAL: <u>8 Hg</u>
Helium Concentration Maintained: <u>YES / 93%</u>	Helium Concentration Maintained: <u>PASS</u>
LABORATORY: <u>FREMONT</u>	LABORATORY: <u>FREMONT</u>

SAMPLER SIGNATURE

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Air Chain of Custody Record & Laboratory Services Agreement

Laboratory Project No (Internal):
Date: 10/29/24 Page: 1 of 1
Special Remarks:
Project Name: 5468 Springfield
Project No: P103-027409/5468 Springfield
Location: 5720 Main St, Springfield, OR
Collected by: Diana Ojeda
Reports to (PM): Laura Skow
Disposal: Samples will be disposed of one week after report is submitted unless otherwise requested. Retain volume (specify above) Return to client

Client: Montrose
Address: 1631 E. Saint Andrew Pl
City, State, Zip: Santa Ana
Telephone: (714) 743-7855 / (714) 919-6533
Fax:

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Field Initial Sample Pressure (in Hg)	Sample Start Date & Time	Sample End Date & Time	Field Final Sample Pressure (in Hg)	Analysis										Comments			
									Full list VOCs T015	Select VOCs T015 **	APH T015	Siloxanes T015	Sulfur T015	Major Gases 3C	Helium 3C Mod	VOCs 8260	GC/BTEX 8260	GC				
SV-1	10375 FC-3	S	1.4L	150CC/ MIN	32	1532 10/29	1541 10/29	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
SV-2	11407 FC-4	S	1.4L	150CC/ MIN	30	1615 10/29	1626 10/29	6	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUP-1	11399 FC-28	S	1.4L	150CC/ MIN	32	1615 10/29	1626 10/29	8	X	X	X	X	X	X	X	X	X	X	X	X	X	

Email (PM): lskow@montrose skow@montrose - env.com

* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE
 ** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag
 *** Select one: BTEXN & APH PCE & Breakdown Other, specify in comments

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature): Diana Ojeda Date/Time: 10/30/24
 Received (Signature): Laura Skow Date/Time: 10/30/24
 Relinquished (Signature): Diana Ojeda Date/Time: 10/30/24
 Received (Signature): Laura Skow Date/Time: 10/30/24

WELLHEAD INSPECTION FORM

PN: 5468 Date: 10/29/24 Page: 1 of 1
 Site: United Pacific #5468 Client: Montrose
 Technician: DO

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													
MW-2	X													
MW-3	X													
MW-4	X													
MW-5	X													
MW-6	X													
MW-7	X													
MW-8	X													
MW-9	X													
MW-10	X													
MW-11	X													
MW-12	X													
MW-13	X													
EW-1R	X													
EW-2R	X													
EW-4	X													



DRUM LOG

Site Name/No.: United Pacific #5468
 Site Address.: 5720 Main St, Springfield, OR

Project No.: PROJ-027409

STATUS OF DRUM(S) UPON ARRIVAL				
Date:	<u>10/29/24</u>			
Number of Drums empty:	<u>0</u>			
Number of drums 1/4 full:	<u>0</u>			
Number of drums 1/2 full:	<u>0</u>			
Number of drums 3/4 full:	<u>9</u>			
Total drums onsite:	<u>9</u>			
Are the drums properly labeled?	<u>yes</u>			
Drum ID and contents:	<u>soil cuttings</u>			
If any drums are partially or totally filled, what is the first used date?	<u>-</u>			

-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:	<u>10/29/24</u>			
Number of Drums empty:	<u>0</u>			
Number of drums 1/4 full:	<u>2</u>			
Number of drums 1/2 full:	<u>0</u>			
Number of drums 3/4 full:	<u>9</u>			
Total drums onsite:	<u>11</u>			
Are the drums properly labeled?	<u>yes</u>			
Drum ID and contents:	<u>sl + H₂O</u>			
If any drums are partially or totally filled, what is the first used date?	<u>10/29/24</u>			

LOCATION OF DRUMS
<p style="font-size: 1.2em; font-family: cursive;">By Dumpsters at Back of gas station Store</p>

FINAL STATUS				
Number of new drum(s) left onsite this event:	<u>2</u>			
Date of inspection:	<u>10/29/24</u>			
Drums labeled properly?:	<u>yes</u>			
Technician's initials:	<u>NO</u>			



APPENDIX H

MONITORING WELL SAMPLING PROTOCOLS

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.

January 2019 Version



APPENDIX I

NON-HAZARDOUS WASTE MANIFEST

Please print or type.

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 019380871 FLE		
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 LLC					U.S. EPA ID Number CAR000070540		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address US Ecology Manufacturing 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		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. NA3082, Hazardous, liquid, n.o.s. (GROUNDWATER, BENZENE), 9, PGIII	1	DM	400	P		
	2. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)	5	DM	4000	P		
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1) ERG#171; 54727-0 UNL- 1x55 Project Number 549565 Document #: D676448 2) 53359-0 UNL- 5x55							
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/Offor's Printed/Typed Name Mike Jansma OBO United Pacific					Signature <i>[Signature]</i>		Month Day Year 11 19 24
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mike Jansma					Signature <i>[Signature]</i>		Month Day Year 11 19 24
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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. H132		2. H132		3.		4.	
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 Giesbrecht					Signature <i>[Signature]</i>		Month Day Year 12 11 24

AFFIX TO RIGHT SIDE
OF ALL HAZARDOUS
MATERIALS BILLS AT LIN
SO TAB WILL STICK OUT
HAZTAB / G C LABEL 1-800-997-69