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Geologic and Environmental Consulting Services

MSBA

Dave Pardue
UST Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street
Portland, Oregon 97323

May 29, 2024

Transmitted via email to: Dave.Pardue@deq.oregon.gov

Subject: **UST Compliance Sampling**
Former Steve's Chevron
1700 W 6th Street, The Dalles, Oregon

Dear Mr. Pardue:

Martin S. Burck Associates, Inc. (MSBA) performed UST decommissioning compliance soil and groundwater sampling activities at 1700 W 6th Street, The Dalles Oregon (site) on behalf of Steve Palmer, owner of the property. The general site features and location of the former USTs are illustrated on Figure 1 (Attachment A). The purpose of this work was to verify data and address data gaps following Sheldon Petroleum Services (SPS) decommissioning of four USTs in 2019. This work was intended to satisfy Oregon Department of Environmental Quality (DEQ) decommissioning requirements for regulated tanks, as required to permanently close the UST system. Decommissioning compliance sampling activities were performed in general accordance with the Oregon Administrative Rules (OAR) 340-122-205 through 340-122-0360, the DEQ work plan submitted on April 26, 2024, and the MSBA Field Methods and Procedures (FM&P) (Attachment B).

Background

According to records obtained from DEQ, a total of six USTs were formerly present at the site, including three 10,000-gallon gasoline, one 1,000-gallon diesel, one 995-gallon heating oil, and one 995-gallon waste oil (Figure 1). The heating oil and waste oil USTs were reportedly removed in 2002 and replaced with the 1,000-gallon diesel UST. Apparently, no compliance sampling was performed at that time. In April through June 2019, SPS decommissioned the remaining three gasoline USTs and one diesel UST by removal. During this work, SPS collected six UST decommissioning compliance soil samples (***6648 N***, ***6648 S***, ***6648 E***, ***6648 W***, ***6648D E***, and ***6648D W***) for laboratory analysis of petroleum hydrocarbons (PHCs), which were not detected by method

NWTPH-HCID. UST decommissioning compliance soil samples were not collected beneath the dispensers and product lines by SPS, as required under OAR 340-150-0180. Groundwater was encountered during the decommissioning and a sample (***Pit/Vola***) was collected by SPS for laboratory analysis of risk-based decision making (RBDM) volatile organic compounds (VOCs) using method 8260C and polycyclic aromatic hydrocarbons (PAHs) using method 8270D SIM. Several constituents were detected in the groundwater sample at relatively low concentrations. Following the decommissioning, SPS submitted the requisite UST Decommissioning Checklist and Site Assessment Report to DEQ, however, the site map did not include sample locations. In addition, the presence of VOCs and PAHs in groundwater was not reported as a release. DEQ subsequently notified property owner Steve Palmer that the decommission did not comply with the Underground Storage Tank Rules (OAR 340-150-0168 through 340-150-0180) and requested additional sampling to evaluate the presence/absence of PHCs beneath the product lines, dispensers, and former tanks.

UST Decommissioning Compliance Soil and Groundwater Sampling - May 2024

MSBA prepared a compliance sampling plan intended to resolve the SPS data gaps and DEQ concerns. The plan was submitted and approved by DEQ with minor modifications (email, 5/1/24). On May 2 and 3, 2024, MSBA performed UST decommissioning compliance soil and groundwater sampling activities at the site in general accordance with the approved plan and the FM&P. The purpose of this work was to collect compliance soil samples beneath the product lines and dispensers and verify/confirm previous soil and groundwater sample analytical data reported by SPS. Prior to sampling, a geophysical survey was conducted by Geopotential of Fairview, Oregon to locate the product lines and former tank cavities. The survey included ground penetrating radar and electromagnetics over the reported UST locations and surrounding area. The approximate location of the product lines and former USTs are shown on Figure 1. The geophysical survey was also used to determine the depth to bedrock along the back-of-sidewalk adjacent to 6th Street. Bedrock was present 2 to 3 feet bsg along the entire length of the property.

Tank Cavity Soil Sampling and Analytical Results

To verify/confirm the previous tank cavity soil sample results obtained by SPS, MSBA advanced one test pit in the vicinity of the former diesel UST (T1) and two test pits in the vicinity of the three gasoline USTs (T2 and T3) (Figure 1). The test pits were advanced to the groundwater interface 6.5 feet bsg and soil samples ***T1-6.5***, ***T2-6.5***, and ***T3-6.5*** were collected from the former tank cavity sidewalls for laboratory analysis. The last number in each sample name represents the depth at which it was collected (i.e. sample ***T1-6.5*** was collected at 6.5 feet bsg). MSBA field screened soil from each test pit for indications of PHCs, which were not observed or detected using a photoionization detector (PID) with 10.6 eV lamp.

Tank cavity soil samples ***T1-6.5***, ***T2-6.5***, and ***T3-6.5*** were submitted to Pace Analytical (Pace) of Mount Juliet, Tennessee for laboratory analysis. The soil sample analytical results are presented in Table 1 (Attachment C) and the results for gasoline, diesel, and oil are illustrated on Figure 1. Sample ***T1-6.5*** was analyzed for diesel and oil using method NWTPH-Dx and benzene, toluene, ethylbenzene, and xylenes (BTEX) using method 8260D. Diesel was detected in sample ***T1-6.5*** at a relatively low concentration of 6.48 parts per million (ppm) and oil and BTEX were not detected above the laboratory reporting limits (RLs). The diesel concentration in sample ***T1-6.5*** (6.48 ppm) is well below the most stringent, Level 1 Soil Matrix Cleanup Standard (SMCS) of 100 ppm and the most stringent occupational RBC of 130 ppm (Table 1). Samples ***T2-6.5*** and ***T3-6.5*** were analyzed for gasoline, which was not detected using method NWTPH-Gx. Copies of the laboratory analytical reports are included in Attachment D. The tank cavity soil sample results are generally consistent with the previous soil sample results obtained by SPS. Based on these results, it appears that PHCs in soil at the former tank cavities do not present a risk to human health and safety or the environment.

Product Line and Dispenser Soil Sampling and Analytical Results

To resolve SPS decommissioning data gaps, MSBA collected product line soil samples ***PL1-2***, ***PL2-2.5***, ***PL3-2***, ***PL4-3***, and ***PL5-2.5*** and dispenser soil samples ***D1-2.5***, ***D2-2.5***, ***D3-2.5***, ***D4-2.5***, and ***D5-2*** using hand tools (Figure 1). MSBA field screened the soil at each location for indications of PHCs, which were not observed or detected using the PID. The soil samples were collected from native soil, approximately 1 foot below the product lines and dispensers. MSBA inspected the product lines, which did not appear to contain residual product.

Product line soil samples ***PL1-2***, ***PL2-2.5***, ***PL3-2***, ***PL4-3***, and ***PL5-2.5*** and dispenser samples ***D1-2.5***, ***D2-2.5***, ***D3-2.5***, ***D4-2.5***, and ***D5-2*** were submitted to Pace for qualitative analysis of PHCs using method NWTPH-HCID. The soil sample analytical results are presented in Table 1 and illustrated on Figure 1. Gasoline was not detected in any product line or dispenser samples. Diesel was only detected in samples ***PL1-2***, ***D1-2.5***, and ***D4-2.5***. Oil was only detected in sample ***D1-2.5***. Based on the PHC detections, samples ***PL1-2***, ***D1-2.5***, and ***D4-2.5*** were submitted for quantitative analysis of diesel and oil using method NWTPH-Dx. Diesel was detected in all three samples at low concentrations ranging from 9.92 ppm in sample ***PL1-2***, to 26.2 ppm in sample ***D4-2.5***. Oil was detected in sample ***PL1-2*** at a low concentration of 27.5 ppm and was not detected in samples ***D1-2.5*** and ***D4-2.5***. Copies of the laboratory analytical reports are included in Attachment D.

The maximum diesel concentration of 26.2 ppm and oil concentration of 27.5 ppm are well below the most stringent, Level 1 SMCS of 100 ppm and the most stringent occupational RBC of 130 ppm (Table 1). Based on these results, PHCs detected in soil beneath the product line and dispensers do not present a risk to human health and safety or the environment.

Groundwater Sampling and Analytical Results

To verify/confirm the previous groundwater sample results reported by SPS (sample ***Pit/Vola***), MSBA installed temporary well casings in test pits T1 and T3 at the former tank cavities (Figure 1) and collected groundwater samples ***T1-GW*** and ***T3-GW*** using a peristaltic pump. Prior to sampling, MSBA purged approximately 5 gallons from each test pit to remove sediment and collect a representative sample. The geophysical survey determined that the depth to bedrock along the back-of-sidewalk adjacent to 6th street was 2 to 3 feet bsg. Therefore, test pit T4 proposed at that location (Figure 1) to collect a groundwater sample, was not feasible.

Groundwater samples ***T1-GW*** and ***T3-GW*** were submitted to Pace for laboratory analysis. Sample ***T1-GW*** was analyzed for diesel and oil using method NWTPH-Dx, RBDM VOCs using method 8260D, and PAHs using method 8270E SIM, none of which were detected. The groundwater sample analytical results are presented in Table 2 (Attachment C) and select results are illustrated on Figure 1. Sample ***T3-GW*** was analyzed for gasoline using method NWTPH-Gx and RBDM VOCs using method 8260D, none of which were detected. A copy of the laboratory analytical report is included in Attachment E.

The tank cavity groundwater sample results are generally consistent with the previous sample results obtained by SPS. Based on these results, it appears that PHCs and related constituents are not present in groundwater at the former tank locations.

Summary and Conclusion

In May 2024, MSBA performed UST decommissioning compliance soil and groundwater sampling activities at the site in general accordance with the approved work plan and the MSBA FM&P. The purpose of this work was to 1) resolve SPS data gaps by collecting soil samples beneath the product lines and dispensers, and 2) verify/confirm previous SPS soil and groundwater sample analytical data at the tank cavities. The MSBA tank cavity soil and groundwater sample results were generally consistent with previous SPS results. Diesel and oil were detected in several soil samples but concentrations were well below the most stringent, Level 1 SMCS of 100 ppm and the most stringent occupational RBC of 130 ppm. PHCs and related constituents were not detected in the groundwater samples. Based on the absence of gasoline and related constituents in soil and groundwater, and the low concentrations of diesel/oil in soil, MSBA concludes that proposed groundwater sample T4 (Figure 1) is not warranted. MSBA also concludes that the SPS data gaps have been resolved, the site is in compliance with the applicable UST decommissioning standards, and that no further action is warranted. MSBA recommends permanent closure of the UST system decommissioned by SPS.

Remarks/Signatures

The information/conclusions contained in this report were arrived at in accordance with currently accepted professional geological and environmental practices at this time and location, no warranties are intended or implied. This report was prepared solely for Steve Palmer; Martin S. Burck Associates, Inc. is not responsible for the independent interpretations, conclusions, or actions of others derived from or based on the information presented herein.

Information and opinions presented in this report are based on the collection and review of data from limited portions of the site subsurface and surroundings. Martin S. Burck Associates, Inc., is not responsible for conditions that may exist in portions of the site that were not investigated; for conditions that were not reported or properly presented; and for future activities or investigations that may alter the current condition or understanding of the site.

Please contact me at (541) 387-4422 if you have any questions regarding this report.

Sincerely,

Martin S. Burck Associates, Inc.

Prepared By:

Jon White / 5/29/24

Jonathan White Date

Project Manager, UST Decommissioning Supervisor #27077

Reviewed by:

Martin S Burck / 5/29/24

Martin S. Burck, LG/RG Date

Licensed/Registered Geologist; OR, WA, CA

Expires: 03/01/2025

Attachments:

Attachment A	Figure 1 Site Plan and Analytical Results
Attachment B	Field Methods and Procedures
Attachment C	Table 1 Soil Sample Analytical Data
	Table 2 Groundwater Sample Analytical Data
Attachment D	Soil Laboratory Analytical Report
Attachment E	Groundwater Laboratory Analytical Report

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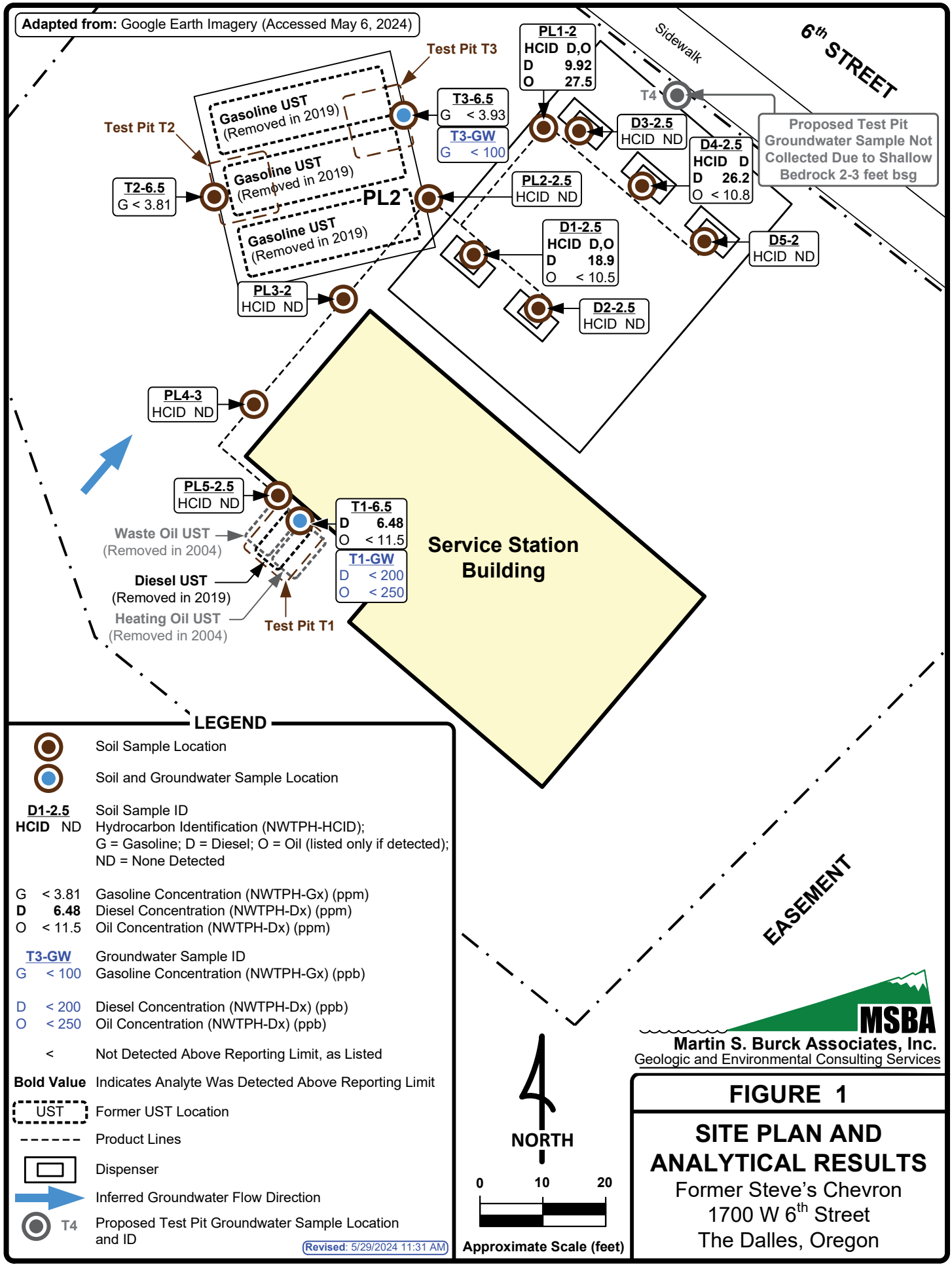
Attachment A

Figure 1 Site Plan and Analytical Results



MSBA
Martin S. Burck Associates, Inc.
Geologic and Environmental Consulting Services

FIGURE 1

SITE PLAN AND ANALYTICAL RESULTS

Former Steve's Chevron
1700 W 6th Street
The Dalles, Oregon

S:\Project Files\Steve's Chevron-The Dalles\Figures\F 1 Site Plan & Analytical.vsd

Attachment B

Field Methods and Procedures

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FIELD METHODS AND PROCEDURES

General Field Methods and Procedures

The following section presents the general methods and procedures that are utilized to complete field activities. These activities include advancing borings and collecting soil and groundwater samples for laboratory analyses. Samples are collected, preserved, and transported for analysis in general accordance with DEQ methodology as presented in OAR 340-122-345 "Sample Collection Methods," and OAR 340-122-218 “Sampling and Analysis.” If not specified by current DEQ regulations, sampling and analytical methods are implemented in general accordance with EPA protocol and/or commonly accepted industry standards for this time and place.

Utility Locating

Utilities, including overhead and underground, are identified and located prior to conducting work at the site. For overhead utilities, a safe minimum working distance is maintained with all sampling equipment dependant on the activity. For drilling or direct push equipment, a minimum 15-20 foot buffer is recommended. For other work such as excavation by backhoe, hand augering, hand probing, etc., a minimum distance is maintained such that the sampling equipment cannot come in contact with the utilities.

Underground utilities are located by contacting Utility Notification Center (UNC) for all underground sampling, excavation, and all other activities performed below the surface. The notification is performed at least 48 hours in advance of the work or as required by local laws and regulations to allow sufficient time for marking of the affected utilities. When warranted, MSBA will arrange on-site meetings with the contracted locators for the utilities to resolve any issues of proximity to the planned work.

In addition to contacting the UNC, MSBA may also perform one or more of the following activities intended to help prevent incidental contact with underground utilities during subsurface activities.

1) **Field Observation**: MSBA observes the site and surroundings for any signs of overhead and/or underground utilities.

2) **Private Utility Locate**: MSBA may contract with private utility locators if warranted to provide additional clarification of potential utilities and their locations.

3) **Hand Clearing**: MSBA may clear up to a maximum of the first five feet of subsurface soil for potential underground utilities by hand digging, hand augering, or air knifing.

Grab Soil Sampling

Grab soil samples are collected by hand or using a decontaminated shovel or hand trowel directly from surface/shallow soil or the sidewalls/base of a test pit or excavation area up to a depth of 4 feet below surface grade (bsg). At depths deeper than 4 feet bsg, soil samples are collected from an excavator bucket. The excavator bucket may be decontaminated prior to sampling. Just prior to collecting each sample, several inches of soil are removed exposing a fresh surface to be sampled. Soil samples are collected with a minimum amount of disturbance.

Soil samples are placed into laboratory provided wide-mouth glass jars, leaving as little headspace as possible. Soil samples are also collected in 40 milliliter (ml) volatile organic analysis (VOA) EPA method 5035 vials with a preservative. The jar is immediately sealed firmly with a Teflon-lined screw cap. After the samples are properly sealed, they are placed in an ice chest with ice and maintained at a temperature of 4° C (+/- 2° C) until preparation for analysis by the laboratory. Soil samples are analyzed within the laboratory designated hold times.

Disposable latex gloves are worn by the sampler and discarded after each sample. Sampling equipment is thoroughly cleaned and decontaminated between sampling events to help eliminate the potential for cross-contamination between samples. Each sample is clearly labeled with a unique name. A written record is maintained which includes, but is not limited to, the date, time, and location where the sample is collected, and any conditions which may have affected the sample integrity.

Drilling Method and Soil Sampling

Subsurface explorations are completed using drilling equipment operated by a licensed drilling subcontractor. The drilling method is selected based on the anticipated subsurface conditions. In general, push-probe or hollow-stem methods are utilized for softer silty soils and sonic or air-rotary methods are utilized for harder, rocky conditions. An MSBA representative oversees and directs the explorations and obtains all soil and groundwater samples.

Soil samples are collected by MSBA and placed into laboratory provided wide-mouth glass jars, leaving as little headspace as possible. Soil samples are also collected in 40 ml VOA EPA method 5035 vials with a preservative. The jar is immediately sealed firmly with a Teflon-lined screw cap. After the samples are properly sealed, they are placed in an ice chest with ice and maintained at a temperature of 4° C (+/- 2° C) until preparation for analysis by the laboratory. Soil samples are analyzed within the laboratory designated hold times.

Disposable latex gloves are worn by the sampler and discarded after each sample. Sampling equipment is thoroughly cleaned and decontaminated between sampling events to help eliminate the potential for cross-contamination between samples. Each sample is clearly labeled with a unique name. A written record is maintained which includes, but is not limited to, the date, time, and location where the sample is collected, and any conditions which may have affected the sample integrity. The soil type and other pertinent information is recorded on a field Soil Boring Log (see attached).

Hand Auger Soil Boring and Sampling

Auger borings are advanced by hand. Samples of soil are collected directly from the barrel of the auger at the target depth or as warranted based on observed conditions. A written record is maintained which includes, but is not limited to, the date, time, and location where the sample is collected, and any unusual conditions which may affect the sample integrity.

Soil samples are collected by MSBA and placed into laboratory provided wide-mouth glass jars, leaving as little headspace as possible. Soil samples are also collected in 40 ml VOA EPA method 5035 vials with a preservative. The jar is immediately sealed firmly with a Teflon-lined screw cap. After the samples are properly sealed, they are placed in an ice chest with ice and maintained at a temperature of 4° C (+/- 2° C) until preparation for analysis by the laboratory. Soil samples are analyzed within the laboratory designated hold times.

Disposable latex gloves are worn by the sampler and discarded after each sample. Sampling equipment is thoroughly cleaned and decontaminated between sampling events to help eliminate the potential for cross-contamination between samples. Each sample is clearly labeled with a unique name. A written record is maintained which includes, but is not limited to, the date, time, and location where the sample is collected, and any conditions which may have affected the sample integrity. The soil type and other pertinent information is recorded on a field Soil Boring Log (see attached).

Soil Field Screening Methods

Field screening methods consist of visual observations, water sheen screening, and/or headspace vapor screening using a MiniRAE photoionization detector (PID). Visual screening methods include observations of staining, discoloration, and other indicators of petroleum. Water sheen screening involves placing a small amount of soil into water and making observations of any sheens. Water sheen classifications are made as follows:

No Sheen:	No visible sheen on the water surface.
Slight Sheen:	Faint and dull sheen with no color; dissipates quickly. Naturally occurring organic matter may produce a slight sheen.
Moderate Sheen:	May have some color or iridescence; spread of sheen is irregular to flowing; most of water surface covered with sheen.
Heavy Sheen:	Obvious color and iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening is conducted by creating a small hole in the soil core or placing a small portion of soil into a Zip-Loc bag and sealing it shut. The probe of the PID is inserted into the soil core. The soil sample within the bag is allowed to volatilize and the probe of the PID is inserted into the bag. The reported accuracy of a MiniRAE PID is 10% discrepancy at concentrations between 1 and 2,000 ppm and 20% discrepancy at concentrations greater than 2,000 ppm. The PID is calibrated in accordance with the manufacturer recommended procedures prior to each day of use.

Temporary Well Installation

Following completion of the soil borings, temporary wells may be installed to allow for groundwater level monitoring and sample collection. Following completion of the groundwater level monitoring and sampling, the temporary well is abandoned within 72 hours in accordance with the Oregon Water Resources Department standards.

Well Development

Following installation, the temporary wells are developed to remove fines and to enhance the recharge and representative quality of water if sufficient water column and recharge is present. The development is performed using a bailer or pump (peristaltic or submersible). The well may be surged prior to development. Well development continues until the discharge is relatively sediment free. Well development may be discontinued if there is insufficient recharge.

Monitoring Well Elevation Survey

The top of each well casing is surveyed to within plus or minus (+/-) 0.01-foot relative to a common temporary benchmark. A temporary benchmark is designated with an assumed elevation relative to the approximate surface elevation above mean sea level (msl). The surveyed locations are marked on each casing for future reference and measuring. The purpose of the survey is to allow precise correlation of measured groundwater levels between each of the wells at the site. The survey information is recorded on a Site Survey Data sheet (see attached).

Groundwater Level Monitoring

The depth to groundwater (water level) is measured with an electronic, hand-held, water level indicator. The probe of the indicator is lowered in the well until contact with groundwater completes a circuit causing a buzzer to activate. The depth to water, measured from the surveyed point at the top of the well casing, is read directly from a graduated cord attached to the probe with marked increments of 0.01-foot. The measurements are recorded on a Groundwater Level Data sheet (see attached).

If present, free product thickness in a well is measured with an electronic, hand-held oil/water interface probe. The oil/water interface probe is lowered into the well until contact with fluids initiates a signal tone. An intermittent tone indicates water and a continuous tone indicates product. A measuring tape in increments of 0.01-foot is attached to the probe and is used to measure thickness of product in a well.

Groundwater Sampling

Prior to collecting a sample for laboratory analysis, the depth to water is measured and the wetted casing length and corresponding well volume is calculated. A minimum of three well volumes of groundwater is then purged with a bailer, submersible pump or peristaltic pump to remove potentially stagnant groundwater and allow the surrounding formation water to enter the well for sampling. During the purging process, the pH, conductivity, and turbidity may be monitored until these parameters are stabilized to confirm that representative formation water is collected for analysis. Stable parameters are generally defined by three successive readings within plus or minus 0.1 for pH, 3 percent for conductivity, and 10 percent for turbidity. Parameter stabilization is typically achieved in less than three well volumes.

After purging, a groundwater sample is collected when the water level in the well has recharged to within 85 percent of the initial static water level. If the desired amount of recharge is not achieved within a period of 60 minutes, the sample is collected and the deficient water level is recorded. If the water column does not contain sufficient volume, the sample may be collected incrementally as recharge allows. The sample is collected from the well using a bailer, submersible pump, or peristaltic pump with dedicated tubing, under low flow conditions to minimize the loss of volatile components, if present.

The groundwater is transferred into laboratory provided 40 ml glass VOA vials, one liter amber glass jars, and 250 ml polyethylene bottles. Some containers may contain a preservative. The type of container, and whether or not it is preserved, is determined by the type of laboratory analysis to be performed. Groundwater samples collected in VOAs are transferred with minimal agitation and sealed with Teflon-lined septum lids so that no head space is present. Samples collected in VOA vials are submitted for volatile organic compound (VOC) analysis. The vials may contain 2-5 drops of dilute HCL as a preservative increasing the sample hold time from 7 to 14 days. Groundwater samples are collected in preserved or non-preserved one liter amber glass jars for analysis of non-volatile petroleum constituents. Groundwater samples are collected in non-preserved 250 ml polyethylene bottles for analysis of metals. Samples collected for analysis of dissolved metals are filtered in the field to remove 0.45 micron size particles or immediately upon receipt by the laboratory. Samples collected for analysis of total metals are not filtered. Groundwater purge and sample data is recorded on a Groundwater Purge and Sample Data sheet (see attached). After the samples are properly sealed, they are placed immediately in an ice chest with ice and maintained at a temperature of 4° C (+/- 2° C) until being prepared by the laboratory for analysis.

Subslab/Soil Vapor and Air Sampling Procedures

Soil vapor, subslab vapor, and air samples are collected in general accordance with The Interstate Technology and Regulatory Council Vapor Intrusion Team guidance document titled, *Vapor Intrusion, Fundamentals of Screening, Investigation, and Management*, dated October 2014, and the Oregon Department of Environmental Quality (DEQ) guidance document titled, *Guidance for Assessing and Remediating Vapor Intrusion in Buildings* (GARVIB) dated March 25, 2010.

Subslab Vapor Sample Point Location and Installation

Upon entry to each building, MSBA inspects concrete floor to the extent possible based on exposure, for significant features including cracks, holes, and penetrations that may allow ambient air to compromise sample integrity. Any observed significant features are documented in the field notes and the sample data sheets as supplemental information. Floor coverings may prevent observation of significant features. Prior to drilling through the slab, MSBA evaluates potential conflicts with utilities and may retain a private utility locating company, as needed.

A rotary hammer drill is used to create a 1-inch diameter sample collection hole that penetrates the slab and approximately 1 to 2 inches of subslab material. A stainless steel vapor point is connected to Teflon tubing and placed just beneath the bottom of the slab. Filter sand is placed in the void around the vapor point to just above the bottom of the slab. A 0.25 to 0.5 inch layer of granulated bentonite is placed above the sand but not hydrated. Portland cement or bentonite slurry is used to seal the remainder of the borehole to the surface. MSBA will allow sufficient time for subslab equilibration prior to sampling, typically 45 to 60 minutes.

Soil Vapor Sampling Point Installation - Hand-Operated Push Probe

Soil vapor sample points are installed in temporary borings advanced using a 3/4-inch diameter, hand-driven push probe. Typically, the push probe is advanced and soil vapor samples are collected at a depth of 5 feet bsg; however, high groundwater conditions may warrant shallower sampling depths. The probe is generally fitted with either a retractable or dedicated screened slotted vapor sample attachment depending on subsurface conditions. A Teflon tube extends from the sample attachment to the surface. When using the dedicated tip, the following procedure is observed: 1) filter sand is placed in the borehole from 5 feet to 4 feet bsg; 2) a 0.5-inch granulated bentonite barrier is placed on the sand and not hydrated; and 3) a bentonite/cement slurry is used to seal the remainder of the borehole to the surface. When using the retractable probe there is no annular space, however, a bentonite and/or cement slurry seal is placed at surface grade.

Soil Vapor Sampling Point Installation - Hand Auger

Soil vapor points are installed in temporary borings advanced using a 3.25-inch diameter, stainless-steel hand auger. Typically, the auger is advanced and soil vapor samples are collected at a depth of 5 feet bsg; however, high groundwater conditions may warrant shallower sampling depths. Approval is obtained if/when possible prior to collecting subsurface vapor samples shallower than 5 feet bsg. Colorado silica sand (or similar) is placed in the bottom 6 to 12 inches of the boring. A stainless-steel sampling screen, connected to Teflon tubing by a hose barb, is placed near the middle of the sanded interval. A thin layer of powdered bentonite is placed on top of the sand and the bore hole is sealed to within 0.5 foot of the surface using a bentonite and/or cement slurry. Following the installation of the seal, the teflon tubing is supported in a vertical orientation until the seal has dried to ensure that the tubing remains within the middle of the boring not touching the sides. A brass threaded compression fitting is used to seal the tubing while the boring is allowed to equilibrate post subsurface disturbance for a minimum of approximately 48 hours. Borings advanced in this manner

may be completed as semi-permanent soil vapor sampling points. Semi-permanent soil vapor points are sealed at the surface with concrete and a flush-mount monument of the same specifications and standards as a groundwater monitoring well in order to be protective of the groundwater.

Soil Vapor Sampling Point Installation - Drill Rig

Soil vapor points are installed in temporary borings using a drill rig (push probe, auger, or sonic methods). The boring diameter may range from 2.25 to 8 inches. The sampling point is constructed the same way as described above in the hand auger soil vapor sampling point installation procedures. Borings advanced in this manner may be completed as semi-permanent soil vapor sampling points. Semi-permanent soil vapor points are sealed at the surface with concrete and a flush-mount monument of the same specifications and standards as a groundwater monitoring well in order to be protective of the groundwater.

Subslab/Soil Vapor Sample Purging and Leak Detection

Prior to purging and sampling activities, the certified laboratory-provided sample collection manifold is vacuum tested. A vacuum of 30 inches of mercury is applied to the manifold by connecting it to the sample canister. The manifold is then sealed at both ends and monitored for 5 minutes to verify that no vacuum is lost. If any decrease in vacuum is observed, then the sample canister may have been compromised and is not used.

MSBA allows the temporary or semi-permanent boring advanced with a hand-driven push probe or drill rig push probe to equilibrate a minimum of 20 minutes and a hand auger or drill rig advanced boring to equilibrate a minimum of 48 hours prior to purging in general accordance with GARVIB. A total of 3 times the cumulative volume of air from the sampling point, manifold, and sand pack is purged at a maximum flow rate of approximately 200 mL/minute. The flow rate is limited by the intake regulator or critical orifice assembly on the manifold. The purging is completed using a peristaltic pump, spare sample canister, or dedicated syringe. Leak testing is performed by one of two methods, including 1) a helium filled shroud and a field helium detector; or 2) a 2-propanol filled shroud and a tedlar bag air sample collected from inside the shroud. After completing the purge process successfully, soil vapor samples are collected for analysis at the same flow rate as the purge. The soil vapor samples are subsequently submitted for laboratory analysis of helium or 2-propanol to evaluate whether ambient air has compromised the sample due to short circuiting with the surface or leaking fittings on the manifold.

Subslab/Soil Vapor Sample Collection and Analysis

MSBA begins collecting the soil vapor sample immediately after the purging has been completed. The sample is collected using either a sample canister and manifold for analysis by EPA method TO-15, or a sampling tube and fixed rate pump for analysis by EPA method TO-17. The collection method is determined prior to the sampling event by MSBA based on soil and groundwater analytical data. The initial vacuum of the sample canister is tested prior to sampling. The anticipated initial vacuum reading will range from approximately 27 to 30 inches of mercury.

Subslab/soil vapor samples selected for TO-15 analysis are collected using a laboratory-provided, evacuated sample canister and sampling manifold with an intake regulator that ensures that the sample collection flow rate is no greater than 200 mL/minute; collection rate varies depending on the subsurface conditions. MSBA continues sampling until the final vacuum of the sample canister has reached approximately 3 to 6 inches of mercury. MSBA documents the purging and sampling data/info on a Subslab/Soil Vapor Purge & Sample Data sheet (see attached).

Subslab/soil vapor samples selected for TO-17 analysis are collected using a laboratory-provided sampling tube. The soil vapor is drawn through the sampling tube at a rate of no greater than 200ml/min using a calibrated sampling pump. MSBA documents the purging and sampling data/info on a Subslab/Soil Vapor Purge & Sample Data sheet (see attached).

Indoor Air Sampling - Ambient and Outdoor

Prior to sampling, a building survey (as specified in Appendix E of the GARVIB) is performed and all occupants are asked to keep windows and exterior doors closed, to the extent practicable, to minimize the contribution of outdoor air. The number of indoor air samples and their locations are determined prior to the sampling event based on the results of the building survey. Samples are collected at breathing zone height, approximately 3-5 feet. During the indoor air sample collection period, an outdoor ambient air sample is also collected upwind of the building to evaluate background levels of PHCs. The ambient air sample is also placed at breathing zone height of approximately 3-5 feet. Air samples are collected during a 24-hour period for residential buildings and an 8-hour period for commercial buildings in order to simulate the respective exposure conditions. Purging and leak detection are not conducted due to the nature of this type of sample. Air samples selected for TO-15 (VOCs and/or gasoline) analysis are collected using a laboratory-provided, evacuated sample canister with an intake regulator or critical orifice assembly that ensures the sample collection time is no greater than 8 hours or 24 hours, depending on the project specifications. The volume of the sample canister is 1-liter or 6-liters, depending on the reporting limits required. In general, larger sample volumes achieve lower reporting limits.

Chain-of-Custody and Labeling

The Chain-of-Custody (COC) is a form that documents the custody of a sample from the time of origin to the time of disposal or destruction. A COC is initiated in the field at the time the samples are collected. The sampler documents such information as the time, date, type of sample, and requested analyses. Any individual in custody of the samples, including the laboratory, is required to document the transfer of custody (beginning with the sampler) by signing the COC (including date and time of transfer). Every sample collected for analysis or testing is maintained under COC protocol.

Equipment Decontamination

Equipment used to collect soil and groundwater samples such as; bailers, water level indicators, etc., is decontaminated prior to each use. Strict decontamination procedures are utilized to help eliminate the potential for cross-contamination between samples and sample locations.

The decontamination procedure includes a thorough washing in tap water with Liquinox followed by two rinses in tap water and a third and final spray rinse using distilled water. If time permits, the sampling equipment is allowed to air dry. Disposable latex gloves are worn during sampling to help eliminate the potential for cross-contamination by the sampler. The gloves are discarded after each sample event and a new pair is utilized for each subsequent sampling event.

Investigation Derived Waste

Investigation derived waste (IDW) accumulated during the explorations typically consists of soil, groundwater, or decontamination and rinse waters. Soil and water are collected and placed into suitable containers. A label is affixed to each storage container including the date, contents, and contact information. The containers are stored onsite in a secure location pending disposal at an authorized facility. Disposable items such as sampling gloves, paper towels, and plastic sheeting are placed into plastic garbage bags and disposed in a municipal trash receptacle.

SOIL BORING LOG

Site Address:

Boring Number	
Page Number	1 of
Drilling Contractor	Drilling Method

Martin S. Burck Associates, Inc.
Geologic and Environmental Consulting Services

Start (Date - Time)	Finish (Date - Time)
Elevation (Top of Well Casing)	Logged By

Sample Number	PID reading (ppm)	Sample Recovery (inches)	Depth (feet) Sample Interval	Soil Description
			0	

Comments:

Sample diameter : _____

Total Depth : _____

Hole abandonment : _____

MARTIN S. BURCK ASSOCIATES, INC.

MSBA

SITE SURVEY DATA

Project: _____

Date: _____ Surveyed By: _____

Location	Backsight (+)	Foresight (-)	Instrument Height	Elevation	Comments

Benchmark location sketch

MARTIN S. BURCK ASSOCIATES, INC.

MSBA

GROUNDWATER LEVEL DATA

Project: _____

Date: _____ Measured By: _____

Well No.	Time	DTW	Ref. Elev.	GW Elev.	Comments

MARTIN S. BURCK ASSOCIATES, INC.

MSBA

GROUNDWATER PURGE AND SAMPLE DATA

Sample Order ( )

Project: _____

Date: _____ Sampled By: _____

MONITORING WELL INFORMATION

Well Number: _____ General Location: _____

Well Diameter (in): _____ Total Depth (ft): _____ Depth to Groundwater (ft): _____

Wetted Casing Length (ft): _____ One Well Volume (gals): _____ No. of Well Volumes to Purge: _____

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **1.5"** = 0.092; **2"** = 0.17; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

Total Purge Volume (gals): _____ Purge Method (Pump, Bailer, etc.): _____

WELL DEVELOPMENT/PURGING INFORMATION

Time	Depth to Water	Gallons Purged	Cumulative Total	T	C	pH	TDS	Comments

Comments: ≥ 85% static water column ≤ feet DtW WELL TYPE:

GROUNDWATER SAMPLE INFORMATION

Collection Time _____ Appearance ☐ Clear ☐ Cloudy ☐ Turbid Thermal Preservation ☐ Ice Chest & Ice ☐ Other

Containers ( ) 40 ml VOAs ( )1 liter Amber ( ) 500 ml Poly

☐ Preserved ☐ HCL ☐ Preserved ☐ HCL ☐ Preserved ☐ HCL

Requested Analyses: ☐ Gx ☐ Dx ☐ BTEX ☐ RBDM VOCs ☐ PAHs ☐ Other

Collection Method ☐ Disposable Bailer ☐ PVC Bailer ☐ Peristaltic Pump Comments _____

Comments _____

MARTIN S. BURCK ASSOCIATES, INC.

MSBA

SUBSLAB/SOIL VAPOR PURGE AND SAMPLE DATA

Sample Order ( )

Project: _____

Date: _____ Sampled By: _____

SAMPLE INFORMATION

Sample Name _____ General Location: _____

Tubing Diameter (ID) _____ Total Depth (ft) _____ Total Tubing/ Manifold Length _____

Installation Type _____ Installation Date/Time _____ One Purge Volume _____

No. of Volumes to Purge _____ Total Purge Volume _____

SUBSLAB/SOIL VAPOR PURGE AND LEAK TEST INFORMATION

Time	Shroud PID (ppm)	Purge PID (ppm)	Down-Hole Vacuum (inHg)	Canister Vacuum (inHg)	Comments

SUBSLAB/SOIL VAPOR SAMPLE INFORMATION

Start Time _____ End Time (Time of Collection on COC) _____ Start/End Vacuum _____

Container(s) _____ Requested Analyses: _____

Comments _____

Attachment C

Table 1 Soil Sample Analytical Data
Table 2 Groundwater Sample Analytical Data

TABLE 1
SOIL SAMPLE ANALYTICAL DATA
Former Steve's Chevron
1700 W 6th Street
The Dalles, Oregon

Sample ID	Sample Date	Sample Depth [a]	PHCs [b] and BTEX [c] (ppm) [d]							
			Hydrocarbon Identification (HCID) [e]	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes
Tank Cavity Soil Samples										
T1-6.5	5/2/24	6.5	- [f]	-	**6.48** [g]	< 11.5 [h]	< 0.00133	< 0.00667	< 0.00333	< 0.0120
T2-6.5	5/2/24	6.5	-	< 3.81	-	-	-	-	-	-
T3-6.5	5/2/24	6.5	-	< 3.93	-	-	-	-	-	-
Product Line Soil Samples										
PL1-2	5/2/24	2.0	**D, O**	-	**9.92**	**27.5**	-	-	-	-
PL2-2.5	5/2/24	2.5	ND	-	-	-	-	-	-	-
PL3-2	5/2/24	2.0	ND	-	-	-	-	-	-	-
PL4-3	5/2/24	3.0	ND	-	-	-	-	-	-	-
PL5-2.5	5/2/24	2.5	ND	-	-	-	-	-	-	-
Dispenser Soil Samples										
D1-2.5	5/2/24	2.5	**D, O**	-	**18.9**	< 10.5	-	-	-	-
D2-2.5	5/3/24	2.5	ND	-	-	-	-	-	-	-
D3-2.5	5/2/24	2.5	ND	-	-	-	-	-	-	-
D4-2.5	5/2/24	2.5	**D**	-	**26.2**	< 10.8	-	-	-	-
D5-2	5/2/24	2.0	ND	-	-	-	-	-	-	-
DEQ Soil Risk-Based Concentrations (RBCs) - Revised June 2023										
LGW [i]	Occupational		N/A [j]	130	> MAX [k]	> MAX	0.1	490	0.90	100
SIDCI [l]	Occupational		N/A	20,000	14,000	14,000	37	88,000	150	25,000
	Construction		N/A	9,700	4,600	4,600	380	28,000	1,700	20,000
	Excavation		N/A	> MAX	> MAX	> MAX	11,000	770,000	49,000	560,000
VOA [m]	Occupational		N/A	69,000	> MAX	> MAX	50	> Csat [n]	160	> Csat

a Depth of sample in feet below surface grade (bsg)
b Petroleum hydrocarbons (PHCs) were analyzed using NWTPH-HCID (hydrocarbon identfication), NWTPH-Gx gasoline, and NWTPH-Dx (diesel and oil).
c Benzene, toluene, ethylbenzene, and xylenes (BTEX) analyzed using method 8260D
d Analytical results reported in parts per million (ppm)
e HCID results indicated by the following: ND = Not Detected; G = Gasoline detected; D = Diesel detected; O = Oil detected
f (-) Not analyzed
g Bold value indicates analyte concentration exceeded laboratory reporting limit
h (<) Analyte concentration not detected above the laboratory reporting limit, as listed
i Leaching to groundwater (LGW) RBCs for the residential receptor
j (N/A) Not applicable
k (> MAX) "The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown" (Appendix A, RBDM, 2018)
l Soil ingestion, dermal contact, and inhalation (SIDCI) RBCs for the residential, construction, and excavation worker receptors
m Volatilization to outdoor air (VOA) RBCs for the residential receptor
n (> Csat) "This soil RBC exceeds the limit of three-phase equilibrium partitioning" (Appendix A, RBDM, 2018)

S:\Project Files\Steve's Chevron-The Dalles\Tables\[T 1 Soil Analytical Data.xlsx]Main Table

LE 2
PLE ANALYTICAL DATA

e's Chevron
6th Street
s, Oregon

PAHs [d] (ppb)

Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Chloronaphthalene
< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.100	< 0.0500	< 0.0500	< 0.250	< 0.0500	< 0.0500	< 0.250	< 0.250	< 0.0500
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCs) - Revised May 2018 and June 2023																		
> S [i]	2,500	- - [j]	0.38	0.47	> S	- -	> S	> S	0.47	> S	1,300	> S	0.72	- -	> S	- -	- -	- -
NITI [l]	NITI	- -	2,300	NV [m]	NV	- -	NV	NV	NV	NITI, NV	NITI	NV	50	- -	NITI	- -	- -	- -
> S	> S	- -	> S	NV	NV	- -	NV	NV	NV	NV	> S	NV	16,000	- -	> S	- -	- -	- -
> S	> S	- -	> S	> S	> S	- -	> S	> S	> S	> S	> S	> S	500	- -	> S	- -	- -	- -

xt.

S:\Project Files\Steve's Chevron-The Dalles\Tables\[T 2 GW Analytical Data.xlsx]T2

TABL
GROUNDWATER SAMP

Former Stev
1700 W 6
The Dalle

Sample ID	Sample Date	PHCs [a] (ppb) [b]			RBDM VOCs [c]											
		Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2-Dibromoethane	1,2-Dichloroethane	Methyl tert-butyl ether	Isopropylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	
T1-GW	5/2/24	- [e]	< 200 [f]	< 250 [g]	< 1.00	< 1.00	< 1.00	< 3.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<
T3-GW	5/2/24	< 100	-	-	< 1.00	< 1.00	< 1.00	< 3.00	< 5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
DEQ Soil Risk-Based Concentrations (R																
IIT [h]	Occupational	450	430	430	2.1	6,300	6.4	830	0.72	0.034	0.78	68	2,000	250	280	
VIB [k]	Occupational	520	1,700	1,700	12	150,000	31	3,300	50	1.5	18	3,200	9,100	2,400	1,700	
VOA [n]	Occupational	> S	> S	> S	14,000	> S	43,000	> S	16,000	790	9,000	1.5E+06	> S	> S	> S	
GWE [o]	Construction / Excavation	14,000	> S	> S	1,800	220,000	4,500	23,000	500	27	630	63,000	51,000	63,000	7,500	

a Petroleum hydrocarbons (PHCs) were analyzed using Department of Environmental Quality (DEQ) NWTPH methods Gx (gasoline) and Dx (diesel and oil)
b Analytical results reported in parts per billion (ppb)
c Risk-based decision making (RBDM) volatile organic compounds (VOCs) were analyzed using EPA method 8260D
d Polycyclic Aromatic Hydrocarbons (PAHs) were analyzed using EPA method 8270E SIM
e (-) Not analyzed/not applicable
f (<) Analyte concentration not detected above the method detection limit (MDL), as listed
g Bold value indicates analyte concentration exceeded laboratory reporting limit. Detections attributed to laboratory cross-contamination are not shown in bold tex
h Ingestion and Inhalation from Tapwater (IIT) RBCs for the occupational receptor
i (> S) "This groundwater RBC exceeds the solubility limit" (Appendix A, RBDM, 2018)
j (- -) Not available (Oregon Department of Environmental Quality has not established a cleanup level for the respective analyte)
k Vapor Intrusion into Buildings (VIB) RBCs for the occupational receptor
l (NITI) No inhalation toxicity information
m (NV) "This chemical is considered "nonvolatile" for the purposes of the exposure calculations" (Appendix A, RBDM, 2018)
n Volatilization to Outdoor Air (VOA) RBCs for the occupational receptor
o Groundwater in Excavation (GWE) RBCs for the construction and excavation worker receptor

Attachment D

Soil Laboratory Analytical Reports

ANALYTICAL REPORT

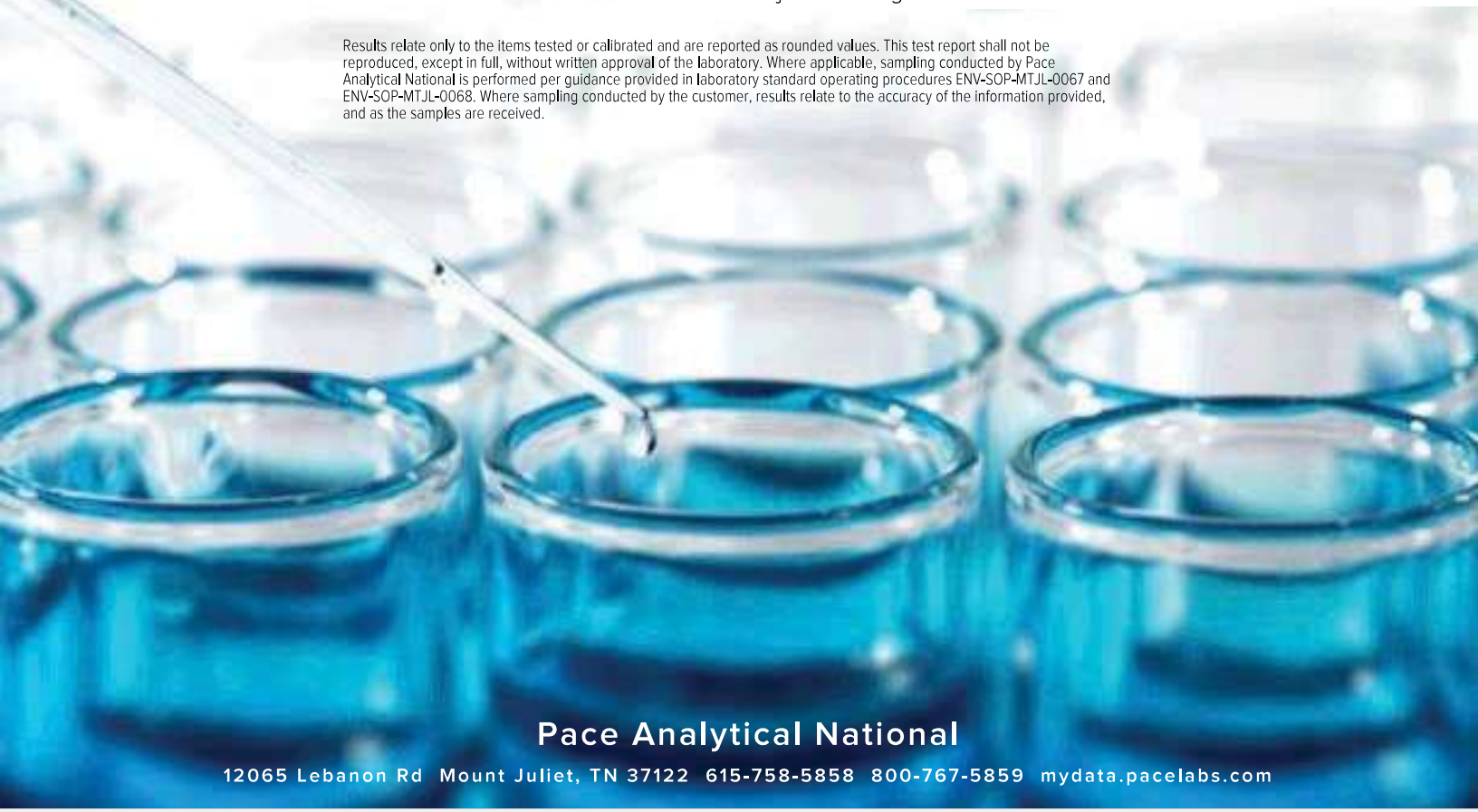
May 16, 2024

Martin S. Burck Assoc.-Hood River, OR

Sample Delivery Group:	L1732842
Samples Received:	05/04/2024
Project Number:	STEVE'S CHEVRON
Description:	Steve?s Chevron ? The Dalles
Site:	STEVE'S CHEVRON
Report To:	Jon White 200 N. Wasco Ct. Hood River, OR 97031

Entire Report Reviewed By:

Kelly Mercer
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

T1-6.5 L1732842-01 Solid

Collected by: Jon White | Collected date/time: 05/02/24 17:12 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2282659	1	05/09/24 17:10	05/10/24 09:23	KDB	Mt. Juliet, TN

T2-6.5 L1732842-02 Solid

Collected by: Jon White | Collected date/time: 05/02/24 18:50 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2282478	25	05/02/24 18:50	05/08/24 22:22	CDD	Mt. Juliet, TN

T3-6.5 L1732842-03 Solid

Collected by: Jon White | Collected date/time: 05/02/24 15:41 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2282478	25	05/02/24 15:41	05/08/24 22:50	CDD	Mt. Juliet, TN

D1-2.5 L1732842-04 Solid

Collected by: Jon White | Collected date/time: 05/02/24 10:05 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 17:38	JAS	Mt. Juliet, TN

D2-2.5 L1732842-05 Solid

Collected by: Jon White | Collected date/time: 05/03/24 12:07 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 16:24	JAS	Mt. Juliet, TN

D3-2.5 L1732842-06 Solid

Collected by: Jon White | Collected date/time: 05/02/24 11:27 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 18:40	JAS	Mt. Juliet, TN

D4-2.5 L1732842-07 Solid

Collected by: Jon White | Collected date/time: 05/02/24 11:52 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 16:36	JAS	Mt. Juliet, TN

D5-2 L1732842-08 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 12:39	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 17:26	JAS	Mt. Juliet, TN

PL1-2 L1732842-09 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 14:42	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 18:53	JAS	Mt. Juliet, TN

PL2-2.5 L1732842-10 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 13:53	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 17:51	JAS	Mt. Juliet, TN

PL3-2 L1732842-11 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 15:11	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2283471	1	05/10/24 23:12	05/13/24 19:22	KKS	Mt. Juliet, TN

PL4-3 L1732842-12 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 17:55	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 16:48	JAS	Mt. Juliet, TN

PL5-2.5 L1732842-13 Solid

Collected by	Collected date/time	Received date/time
Jon White	05/02/24 17:05	05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2282241	1	05/08/24 05:57	05/08/24 18:15	JAS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Kelly Mercer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	05/07/2024 07:41	WG2280853

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	6.48		4.59	1	05/10/2024 09:23	WG2282659
Residual Range Organics (RRO)	ND		11.5	1	05/10/2024 09:23	WG2282659
(S) o-Terphenyl	*35.0*		*18.0-148*		*05/10/2024 09:23*	WG2282659

Sample Narrative:

L1732842-01 WG2282659: Sample resembles laboratory standards for Diesel and Hydraulic oil.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	05/07/2024 07:41	WG2280853

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	ND		3.81	25	05/08/2024 22:22	WG2282478
(S) a,a,a-Trifluorotoluene(FID)	*90.9*		*77.0-120*		*05/08/2024 22:22*	WG2282478

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	05/07/2024 07:41	WG2280853

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline Range Organics-NWTPH	ND		3.93	25	05/08/2024 22:50	WG2282478
(S) a,a,a-Trifluorotoluene(FID)	*90.6*		*77.0-120*		*05/08/2024 22:50*	WG2282478

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	05/07/2024 07:41	WG2280853

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.20	1	05/08/2024 17:38	WG2282241
Mineral Spirits	ND		4.20	1	05/08/2024 17:38	WG2282241
Kerosene	ND		4.20	1	05/08/2024 17:38	WG2282241
Diesel (C12-C24)	29.0		4.20	1	05/08/2024 17:38	WG2282241
#6 Fuel Oil	ND		4.20	1	05/08/2024 17:38	WG2282241
Hydraulic Fluid	ND		4.20	1	05/08/2024 17:38	WG2282241
Motor Oil (C24-C30)	12.8		10.5	1	05/08/2024 17:38	WG2282241
(S) o-Terphenyl	*63.1*		*18.0-148*		*05/08/2024 17:38*	WG2282241

Sample Narrative:

L1732842-04 WG2282241: Sample resembles laboratory standard for Hydraulic Fluid.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.29	1	05/08/2024 16:24	WG2282241
Mineral Spirits	ND		4.29	1	05/08/2024 16:24	WG2282241
Kerosene	ND		4.29	1	05/08/2024 16:24	WG2282241
Diesel (C12-C24)	ND		4.29	1	05/08/2024 16:24	WG2282241
#6 Fuel Oil	ND		4.29	1	05/08/2024 16:24	WG2282241
Hydraulic Fluid	ND		4.29	1	05/08/2024 16:24	WG2282241
Motor Oil (C24-C30)	ND		10.7	1	05/08/2024 16:24	WG2282241
(S) o-Terphenyl	*81.4*		*18.0-148*		*05/08/2024 16:24*	WG2282241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.25	1	05/08/2024 18:40	WG2282241
Mineral Spirits	ND		4.25	1	05/08/2024 18:40	WG2282241
Kerosene	ND		4.25	1	05/08/2024 18:40	WG2282241
Diesel (C12-C24)	ND		4.25	1	05/08/2024 18:40	WG2282241
#6 Fuel Oil	ND		4.25	1	05/08/2024 18:40	WG2282241
Hydraulic Fluid	ND		4.25	1	05/08/2024 18:40	WG2282241
Motor Oil (C24-C30)	ND		10.6	1	05/08/2024 18:40	WG2282241
(S) o-Terphenyl	*77.5*		*18.0-148*		*05/08/2024 18:40*	WG2282241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.31	1	05/08/2024 16:36	WG2282241
Mineral Spirits	ND		4.31	1	05/08/2024 16:36	WG2282241
Kerosene	ND		4.31	1	05/08/2024 16:36	WG2282241
Diesel (C12-C24)	12.8		4.31	1	05/08/2024 16:36	WG2282241
#6 Fuel Oil	ND		4.31	1	05/08/2024 16:36	WG2282241
Hydraulic Fluid	ND		4.31	1	05/08/2024 16:36	WG2282241
Motor Oil (C24-C30)	ND		10.8	1	05/08/2024 16:36	WG2282241
(S) o-Terphenyl	*67.9*		*18.0-148*		*05/08/2024 16:36*	WG2282241

Sample Narrative:

L1732842-07 WG2282241: Sample resembles laboratory standard for Hydraulic Fluid.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.28	1	05/08/2024 17:26	WG2282241
Mineral Spirits	ND		4.28	1	05/08/2024 17:26	WG2282241
Kerosene	ND		4.28	1	05/08/2024 17:26	WG2282241
Diesel (C12-C24)	ND		4.28	1	05/08/2024 17:26	WG2282241
#6 Fuel Oil	ND		4.28	1	05/08/2024 17:26	WG2282241
Hydraulic Fluid	ND		4.28	1	05/08/2024 17:26	WG2282241
Motor Oil (C24-C30)	ND		10.7	1	05/08/2024 17:26	WG2282241
(S) o-Terphenyl	*81.0*		*18.0-148*		*05/08/2024 17:26*	WG2282241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.36	1	05/08/2024 18:53	WG2282241
Mineral Spirits	ND		4.36	1	05/08/2024 18:53	WG2282241
Kerosene	ND		4.36	1	05/08/2024 18:53	WG2282241
Diesel (C12-C24)	11.3		4.36	1	05/08/2024 18:53	WG2282241
#6 Fuel Oil	ND		4.36	1	05/08/2024 18:53	WG2282241
Hydraulic Fluid	ND		4.36	1	05/08/2024 18:53	WG2282241
Motor Oil (C24-C30)	22.5		10.9	1	05/08/2024 18:53	WG2282241
(S) o-Terphenyl	*57.5*		*18.0-148*		*05/08/2024 18:53*	WG2282241

Sample Narrative:

L1732842-09 WG2282241: Sample resembles laboratory standards for Hydraulic Fluid and Hydraulic Oil.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.26	1	05/08/2024 17:51	WG2282241
Mineral Spirits	ND		4.26	1	05/08/2024 17:51	WG2282241
Kerosene	ND		4.26	1	05/08/2024 17:51	WG2282241
Diesel (C12-C24)	ND		4.26	1	05/08/2024 17:51	WG2282241
#6 Fuel Oil	ND		4.26	1	05/08/2024 17:51	WG2282241
Hydraulic Fluid	ND		4.26	1	05/08/2024 17:51	WG2282241
Motor Oil (C24-C30)	ND		10.6	1	05/08/2024 17:51	WG2282241
(S) o-Terphenyl	*84.6*		*18.0-148*		*05/08/2024 17:51*	WG2282241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.62	1	05/13/2024 19:22	WG2283471
Mineral Spirits	ND		4.62	1	05/13/2024 19:22	WG2283471
Kerosene	ND		4.62	1	05/13/2024 19:22	WG2283471
Diesel (C12-C24)	ND	J6	4.62	1	05/13/2024 19:22	WG2283471
#6 Fuel Oil	ND		4.62	1	05/13/2024 19:22	WG2283471
Hydraulic Fluid	ND		4.62	1	05/13/2024 19:22	WG2283471
Motor Oil (C24-C30)	ND		11.6	1	05/13/2024 19:22	WG2283471
(S) o-Terphenyl	*32.4*		*18.0-148*		*05/13/2024 19:22*	WG2283471

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.73	1	05/08/2024 16:48	WG2282241
Mineral Spirits	ND		4.73	1	05/08/2024 16:48	WG2282241
Kerosene	ND		4.73	1	05/08/2024 16:48	WG2282241
Diesel (C12-C24)	ND		4.73	1	05/08/2024 16:48	WG2282241
#6 Fuel Oil	ND		4.73	1	05/08/2024 16:48	WG2282241
Hydraulic Fluid	ND		4.73	1	05/08/2024 16:48	WG2282241
Motor Oil (C24-C30)	ND		11.8	1	05/08/2024 16:48	WG2282241
(S) o-Terphenyl	*68.2*		*18.0-148*		*05/08/2024 16:48*	WG2282241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Gasoline (C7-C12)	ND		4.96	1	05/08/2024 18:15	WG2282241
Mineral Spirits	ND		4.96	1	05/08/2024 18:15	WG2282241
Kerosene	ND		4.96	1	05/08/2024 18:15	WG2282241
Diesel (C12-C24)	ND		4.96	1	05/08/2024 18:15	WG2282241
#6 Fuel Oil	ND		4.96	1	05/08/2024 18:15	WG2282241
Hydraulic Fluid	ND		4.96	1	05/08/2024 18:15	WG2282241
Motor Oil (C24-C30)	ND		12.4	1	05/08/2024 18:15	WG2282241
(S) o-Terphenyl	*62.6*		*18.0-148*		*05/08/2024 18:15*	WG2282241

Method Blank (MB)

(MB) R4066735-1 05/07/24 07:41

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1732842-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1732842-03 05/07/24 07:41 • (DUP) R4066735-3 05/07/24 07:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.7	79.1	1	0.412		10

Laboratory Control Sample (LCS)

(LCS) R4066735-2 05/07/24 07:41

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4066435-1 05/06/24 11:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1732842-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1732842-12 05/06/24 11:40 • (DUP) R4066435-3 05/06/24 11:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.6	85.3	1	0.837		10

Laboratory Control Sample (LCS)

(LCS) R4066435-2 05/06/24 11:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4067475-2 05/08/24 15:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	2.14	J	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	*92.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R4067475-1 05/08/24 13:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	4.77	95.4	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*77.0-120*	

Method Blank (MB)

(MB) R4068078-1 05/10/24 00:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*41.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4068078-2 05/10/24 00:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	35.5	71.0	50.0-150	
(S) o-Terphenyl			*65.2*	*18.0-148*	

L1732653-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732653-03 05/10/24 04:48 • (MS) R4068078-3 05/10/24 05:01 • (MSD) R4068078-4 05/10/24 05:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	50.0	ND	ND	ND	0.000	0.000	100	50.0-150	J6	J6	0.000	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract.

Method Blank (MB)

(MB) R4067563-1 05/08/24 15:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline (C7-C12)	U		1.33	4.00
Mineral Spirits	U		1.33	4.00
Kerosene	U		1.33	4.00
Diesel (C12-C24)	U		1.33	4.00
#6 Fuel Oil	U		1.33	4.00
Hydraulic Fluid	U		1.33	4.00
Motor Oil (C24-C30)	U		3.33	10.0
(S) o-Terphenyl	*84.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4067563-2 05/08/24 15:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel (C12-C24)	50.0	35.7	71.4	50.0-150	
(S) o-Terphenyl			*77.0*	*18.0-148*	

L1732842-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732842-12 05/08/24 16:48 • (MS) R4067563-3 05/08/24 17:01 • (MSD) R4067563-4 05/08/24 17:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel (C12-C24)	57.7	ND	36.2	36.5	62.7	63.3	1	50.0-150			0.976	20
(S) o-Terphenyl					*66.0*	*66.3*		*18.0-148*				

Method Blank (MB)

(MB) R4069304-1 05/13/24 18:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline (C7-C12)	U		1.33	4.00
Mineral Spirits	U		1.33	4.00
Kerosene	U		1.33	4.00
Diesel (C12-C24)	U		1.33	4.00
#6 Fuel Oil	U		1.33	4.00
Hydraulic Fluid	U		1.33	4.00
Motor Oil (C24-C30)	U		3.33	10.0
(S) o-Terphenyl	*48.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4069304-2 05/13/24 19:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel (C12-C24)	50.0	30.1	60.2	50.0-150	
(S) o-Terphenyl			*55.3*	*18.0-148*	

L1732842-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732842-11 05/13/24 19:22 • (MS) R4069304-3 05/13/24 19:35 • (MSD) R4069304-4 05/13/24 19:48

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel (C12-C24)	55.5	ND	17.6	17.8	27.9	27.6	1	50.0-150	J6	J6	1.31	20
(S) o-Terphenyl					*25.8*	*26.7*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Martin S. Burck Assoc.-Hood River, OR

200 N. Wasco Ct.
Hood River, OR 97031

Billing Information:
Accounts Payable
200 N. Wasco Ct.
Hood River, OR 97031

Pres Chk

Report to: Jon White

Email To: jwhite@msbaenvironmental.com;msba@msbae

Project Description: Steve?s Chevron ? The Dalles

City/State Collected: The Dalles, OR

Please Circle: (PT) MT CT ET

Phone: 541-387-4422

Client Project # Steve's Chevron

Lab Project # MSBAHROR-~~WHITE~~ Steve's Chevron

Collected by (print): Jon White

Site/Facility ID # Steve's Chevron

P.O. # Steve's Chevron

Collected by (signature): Jon White

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX,SV8270PAHSIM 4ozClr-NoPres	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	NWTPHGX,V8260 40mlAmb/MeOH 10ml/Syr	PAHSIMLVI 40mlAmb-NoPres-WT	V8260 40mlAmb-HCl	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx (no silica Gel)			
T1-6.5	Grab	SS	6.5'	5/2/24	17:12	2									X			01
T2-6.5	Grab	SS	6.5'	5/2/24	18:50	2								X				02
T3-6.5	Grab	SS	6.5'	5/2/24	15:41	2								X				03
D1-2.5	Grab	SS	2.5'	5/2/24	10:05	2								X				04
D2-2.5	Grab	SS	2.5'	5/3/24	12:07	2							X					05
D3-2.5	Grab	SS	2.5'	5/2/24	11:27	2							X					06
D4-2.5	Grab	SS	2.5'	5/2/24	11:52	2							X					07
D5-2	Grab	SS	2'	5/2/24	12:39	2							X					08
PL1-2	Grab	SS	2'	5/2/24	14:42	2							X					09
PL2-2.5	Grab	SS	2.5'	5/2/24	13:53	2							X					10

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes ackrowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1732842
F046

Acctnum: MSBAHROR
Template: T251990
Prelogin: P1072627
PM: 841 - Kelly Mercer
PB: 4.29.24BK
Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06
	07
	08
	09
	10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Jon White	5/3/24	13:00	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Christopher L. Sellers

Trip Blank Received: Yes / No (HCL) MeoH TBR

Temp: 1.0 °C 1.1 Bottles Received: 44

Date: 5/4/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Martin S. Burck Assoc.-Hood River, OR

200 N. Wasco Ct.
Hood River, OR 97031

Billing Information:
Accounts Payable
200 N. Wasco Ct.
Hood River, OR 97031

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: Jon White

Email To: jwhite@msbaenvironmental.com;msba@msbae

Project Description: Steve?s Chevron ? The Dalles

City/State Collected: The Dalles, OR

Please Circle: (PT) MT CT ET

Phone: 541-387-4422

Client Project #: Steve's Chevron

Lab Project #: MSBAHROR-~~WHITE~~ Steve's Chevron

Collected by (print): Jon White

Site/Facility ID #: Steve's Chevron

P.O. #: Steve's Chevron

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

SDG # L1732842

Table #

Acctnum: MSBAHROR
Template: T251990
Prelogin: P1072627
PM: 841 - Kelly Mercer
PB: 4.29.24 BK
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX,SV8270PAHSIM 4ozClr-NoPres	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	NWTPHGX,V8260 40mlAmb/MeOH10ml/Syr	PAHSIMLVI 40mlAmb-NoPres-WT	V8260 40mlAmb-HCl	NWTPH-HCID	Remarks	Sample # (lab only)
PL3-2	Grab	SS	2'	5/2/24	15:11	2							X		-01
PL4-3	Grab	SS	3'	5/2/24	17:55	2							X		-02
PL5-2.5	Grab	SS	2.5	5/2/24	17:05	2							X		-03
		SS													
		SS													
		SS													
		SS													
		SS													
		SS													
		SS													

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH _______ Temp _______

Flow _______ Other _______

Samples returned via: __ UPS __ FedEx __ Courier ________

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)		
[signature]	5/3/24	13:00		Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.0-0=1.0 °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Christopher Gallus	Date: 5/4/24 Time: 0900	Hold: Condition: NCF / (OK)

ANALYTICAL REPORT

May 17, 2024

Martin S. Burck Assoc.-Hood River, OR

Sample Delivery Group:	L1735634
Samples Received:	05/04/2024
Project Number:	STEVE'S CHEVRON
Description:	Steve?s Chevron ? The Dalles
Site:	STEVE'S CHEVRON
Report To:	Jon White 200 N. Wasco Ct. Hood River, OR 97031

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

T1-6.5 L1735634-01 Solid

Collected by: Jon White | Collected date/time: 05/02/24 17:12 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2286915	1	05/02/24 17:12	05/15/24 19:23	DWR	Mt. Juliet, TN

D1-2.5 L1735634-02 Solid

Collected by: Jon White | Collected date/time: 05/02/24 10:05 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280853	1	05/07/24 07:34	05/07/24 07:41	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2287354	1	05/16/24 08:21	05/16/24 16:28	JAS	Mt. Juliet, TN

D4-2.5 L1735634-03 Solid

Collected by: Jon White | Collected date/time: 05/02/24 11:52 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2287354	1	05/16/24 08:21	05/16/24 15:50	JAS	Mt. Juliet, TN

PL1-2 L1735634-04 Solid

Collected by: Jon White | Collected date/time: 05/02/24 14:42 | Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2280854	1	05/06/24 11:33	05/06/24 11:40	JAV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2287354	1	05/16/24 08:21	05/16/24 16:40	JAS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Kelly Mercer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	05/07/2024 07:41	WG2280853

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00133	1	05/15/2024 19:23	WG2286915
Toluene	ND		0.00667	1	05/15/2024 19:23	WG2286915
Ethylbenzene	ND		0.00333	1	05/15/2024 19:23	WG2286915
Total Xylenes	ND		0.00867	1	05/15/2024 19:23	WG2286915
(S) Toluene-d8	*110*		*75.0-131*		*05/15/2024 19:23*	WG2286915
(S) 4-Bromofluorobenzene	*97.1*		*67.0-138*		*05/15/2024 19:23*	WG2286915
(S) 1,2-Dichloroethane-d4	*82.6*		*70.0-130*		*05/15/2024 19:23*	WG2286915

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	05/07/2024 07:41	WG2280853

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	18.9		4.20	1	05/16/2024 16:28	WG2287354
Residual Range Organics (RRO)	ND		10.5	1	05/16/2024 16:28	WG2287354
(S) o-Terphenyl	*64.2*		*18.0-148*		*05/16/2024 16:28*	WG2287354

Sample Narrative:

L1735634-02 WG2287354: Sample resembles laboratory standards for Gasoline and Hydraulic Fluid.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	26.2	J3 J6	4.31	1	05/16/2024 15:50	WG2287354
Residual Range Organics (RRO)	ND		10.8	1	05/16/2024 15:50	WG2287354
(S) o-Terphenyl	*64.3*		*18.0-148*		*05/16/2024 15:50*	WG2287354

Sample Narrative:

L1735634-03 WG2287354: Sample resembles laboratory standard for Hydraulic Fluid.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	05/06/2024 11:40	WG2280854

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	9.92		4.36	1	05/16/2024 16:40	WG2287354
Residual Range Organics (RRO)	27.5		10.9	1	05/16/2024 16:40	WG2287354
(S) o-Terphenyl	*63.3*		*18.0-148*		*05/16/2024 16:40*	WG2287354

Sample Narrative:

L1735634-04 WG2287354: Sample resembles laboratory standards for Hydraulic Fluid and Hydraulic Oil.

Method Blank (MB)

(MB) R4066735-1 05/07/24 07:41

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1732842-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1732842-03 05/07/24 07:41 • (DUP) R4066735-3 05/07/24 07:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.7	79.1	1	0.412		10

Laboratory Control Sample (LCS)

(LCS) R4066735-2 05/07/24 07:41

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4066435-1 05/06/24 11:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1732842-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1732842-12 05/06/24 11:40 • (DUP) R4066435-3 05/06/24 11:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.6	85.3	1	0.837		10

Laboratory Control Sample (LCS)

(LCS) R4066435-2 05/06/24 11:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4070342-1 05/15/24 10:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Total Xylenes	U		0.000880	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*84.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4070342-2 05/15/24 12:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.106	84.8	70.0-123	
Toluene	0.125	0.104	83.2	75.0-121	
Ethylbenzene	0.125	0.104	83.2	74.0-126	
Total Xylenes	0.375	0.311	82.9	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.2*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*92.0*	*70.0-130*	

Method Blank (MB)

(MB) R4070790-1 05/16/24 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*76.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R4070790-2 05/16/24 15:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	33.9	67.8	50.0-150	
(S) o-Terphenyl			*78.2*	*18.0-148*	

L1735634-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735634-03 05/16/24 15:50 • (MS) R4070790-3 05/16/24 16:03 • (MSD) R4070790-4 05/16/24 16:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	52.8	26.2	46.7	70.7	39.0	83.1	1	50.0-150	J6	J3	40.9	20
(S) o-Terphenyl					*128*	*133*		*18.0-148*				

Sample Narrative:

OS: Sample resembles laboratory standard for Hydraulic Fluid.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Martin S. Burck Assoc.-Hood River, OR

200 N. Wasco Ct.
Hood River, OR 97031

Billing Information:
Accounts Payable
200 N. Wasco Ct.
Hood River, OR 97031

Pres Chk

Chain of Custody Page 1 of 2

Pace® PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1732849~~ F046 L1735634 5/13/24

Acctnum: MSBAHROR
Template: T251990
Prelogin: P1072627
PM: 841 - Kelly Mercer
PB: 4.29.24BK
Shipped Via: FedEX Ground

Report to: Jon White

Email To: jwhite@msbaenvironmental.com;msba@msbae

Project Description: Steve?s Chevron ? The Dalles

City/State Collected: The Dalles, OR

Please Circle: (PT) MT CT ET

Phone: 541-387-4422

Client Project #: Steve's Chevron

Lab Project #: MSBAHROR-~~WHITE~~ Steve's Chevron

Collected by (print): Jon White

Site/Facility ID #: Steve's Chevron

P.O. #: Steve's Chevron

Collected by (signature): Jon White

Rush? (Lab MUST Be Notified)
__ Same Day __ Five Day
__ Next Day __ 5 Day (Rad Only)
__ Two Day __ 10 Day (Rad Only)
__ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX,SV8270PAHSIM 4ozClr-NoPres	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	NWTPHGX,V8260 40mlAmb/MeOH10ml/Syr	PAHSIMLVI 40mlAmb-NoPres-WT	V8260 40mlAmb-HCl	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx (no silica Gel)	Remarks	Sample # (lab only)
T1-6.5	Grab	SS	6.5'	5/2/24	17:12	2									X		~~01~~ -01
T2-6.5	Grab	SS	6.5'	5/2/24	18:50	2								X			~~02~~
T3-6.5	Grab	SS	6.5'	5/2/24	15:41	2								X			~~03~~
D1-2.5	Grab	SS	2.5'	5/2/24	10:05	2							X				~~04~~ -02
D2-2.5	Grab	SS	2.5'	5/3/24	12:07	2							X				~~05~~
D3-2.5	Grab	SS	2.5'	5/2/24	11:27	2							X				~~06~~
D4-2.5	Grab	SS	2.5'	5/2/24	11:52	2							X				~~07~~ -03
D5-2	Grab	SS	2'	5/2/24	12:39	2							X				~~08~~
PL1-2	Grab	SS	2'	5/2/24	14:42	2							X				~~09~~ -04
PL2-2.5	Grab	SS	2.5'	5/2/24	13:53	2							X				~~10~~

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other______

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Sample Receipt Checklist
COC Seal Present/Intact: NP X Y _ N
COC Signed/Accurate: Y _ N
Bottles arrive intact: Y _ N
Correct bottles used: Y _ N
Sufficient volume sent: Y _ N
If Applicable
VOA Zero Headspace: Y _ N
Preservation Correct/Checked: Y _ N
RAD Screen <0.5 mR/hr: Y _ N

Samples returned via: __ UPS __ FedEx __ Courier ______

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No (HCL) / MeoH TBR
Jon White	5/3/24	13:00		1

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.0=1.1 °C	Bottles Received: 44	If preservation required by Login: Date/Time

Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / (OK)
			Christopher J. Sellers	5/4/24	0900		

L1732842 relog

R5

L1732842-01: Relog for V8260BTEX
L1732842-04, -07, -09: relog for NWTPHDXNOSGT

Time estimate: oh **Time spent:** oh

Members

KM Kelly Mercer (responsible)

Attachment E

Groundwater Laboratory Analytical Reports

ANALYTICAL REPORT

May 20, 2024

Revised Report

Martin S. Burck Assoc.-Hood River, OR

Sample Delivery Group:	L1732847
Samples Received:	05/04/2024
Project Number:	STEVE'S CHEVRON
Description:	Steve?s Chevron ? The Dalles
Site:	STEVE'S CHEVRON
Report To:	Jon White 200 N. Wasco Ct. Hood River, OR 97031

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

SAMPLE SUMMARY

T1-GW L1732847-01 GW

Collected by: Jon White
Collected date/time: 05/02/24 18:21
Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2286953	1	05/15/24 14:41	05/15/24 14:41	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2283787	1	05/10/24 10:02	05/12/24 22:13	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2282226	1	05/08/24 08:31	05/08/24 21:51	MKM	Mt. Juliet, TN

T3-GW L1732847-02 GW

Collected by: Jon White
Collected date/time: 05/02/24 18:21
Received date/time: 05/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2283745	1	05/10/24 06:12	05/10/24 06:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2286953	1	05/15/24 15:03	05/15/24 15:03	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Kelly Mercer
Project Manager

Report Revision History

Level II Report - Version 1: 05/16/24 11:01

Project Narrative

invalid DRO data turned off

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1732847-01	T1-GW	NWTPHDX-NO SGT

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
Ethylbenzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
Toluene	ND		0.00100	1	05/15/2024 14:41	WG2286953
Xylenes, Total	ND		0.00300	1	05/15/2024 14:41	WG2286953
Methyl tert-butyl ether	ND		0.00100	1	05/15/2024 14:41	WG2286953
Naphthalene	ND	C3	0.00500	1	05/15/2024 14:41	WG2286953
1,2-Dibromoethane	ND		0.00100	1	05/15/2024 14:41	WG2286953
1,2-Dichloroethane	ND		0.00100	1	05/15/2024 14:41	WG2286953
Isopropylbenzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
n-Propylbenzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
1,2,4-Trimethylbenzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
1,3,5-Trimethylbenzene	ND		0.00100	1	05/15/2024 14:41	WG2286953
(S) Toluene-d8	*103*		*80.0-120*		*05/15/2024 14:41*	WG2286953
(S) 4-Bromofluorobenzene	*94.0*		*77.0-126*		*05/15/2024 14:41*	WG2286953
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*05/15/2024 14:41*	WG2286953

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		0.200	1	05/12/2024 22:13	WG2283787
Residual Range Organics (RRO)	ND		0.250	1	05/12/2024 22:13	WG2283787
(S) o-Terphenyl	*66.3*		*52.0-156*		*05/12/2024 22:13*	WG2283787

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Acenaphthene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Acenaphthylene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Benzo(a)anthracene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Benzo(a)pyrene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Benzo(b)fluoranthene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Benzo(g,h,i)perylene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Benzo(k)fluoranthene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Chrysene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Dibenz(a,h)anthracene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Fluoranthene	ND		0.000100	1	05/08/2024 21:51	WG2282226
Fluorene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Indeno(1,2,3-cd)pyrene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Naphthalene	ND		0.000250	1	05/08/2024 21:51	WG2282226
Phenanthrene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
Pyrene	ND		0.0000500	1	05/08/2024 21:51	WG2282226
1-Methylnaphthalene	ND		0.000250	1	05/08/2024 21:51	WG2282226
2-Methylnaphthalene	ND		0.000250	1	05/08/2024 21:51	WG2282226
2-Chloronaphthalene	ND		0.000250	1	05/08/2024 21:51	WG2282226
(S) Nitrobenzene-d5	*132*		*31.0-160*		*05/08/2024 21:51*	WG2282226
(S) 2-Fluorobiphenyl	*124*		*48.0-148*		*05/08/2024 21:51*	WG2282226
(S) p-Terphenyl-d14	*113*		*37.0-146*		*05/08/2024 21:51*	WG2282226

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		0.100	1	05/10/2024 06:12	WG2283745
(S) a,a,a-Trifluorotoluene(FID)	*91.7*		*78.0-120*		*05/10/2024 06:12*	WG2283745

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
Ethylbenzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
Toluene	ND		0.00100	1	05/15/2024 15:03	WG2286953
Xylenes, Total	ND		0.00300	1	05/15/2024 15:03	WG2286953
Methyl tert-butyl ether	ND		0.00100	1	05/15/2024 15:03	WG2286953
Naphthalene	ND	C3	0.00500	1	05/15/2024 15:03	WG2286953
1,2-Dibromoethane	ND		0.00100	1	05/15/2024 15:03	WG2286953
1,2-Dichloroethane	ND		0.00100	1	05/15/2024 15:03	WG2286953
Isopropylbenzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
n-Propylbenzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
1,2,4-Trimethylbenzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
1,3,5-Trimethylbenzene	ND		0.00100	1	05/15/2024 15:03	WG2286953
(S) Toluene-d8	*103*		*80.0-120*		*05/15/2024 15:03*	WG2286953
(S) 4-Bromofluorobenzene	*95.6*		*77.0-126*		*05/15/2024 15:03*	WG2286953
(S) 1,2-Dichloroethane-d4	*99.4*		*70.0-130*		*05/15/2024 15:03*	WG2286953

Method Blank (MB)

(MB) R4068775-2 05/10/24 02:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Gasoline Range Organics-NWTPH	0.0344	J	0.0316	0.100
(S) a,a,a-Trifluorotoluene(FID)	*91.2*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R4068775-1 05/10/24 01:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	5.17	103	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*95.6*	*78.0-120*	

L1732872-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732872-04 05/10/24 06:35 • (MS) R4068775-3 05/10/24 14:00 • (MSD) R4068775-4 05/10/24 14:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	0.186	5.48	5.34	106	103	1	10.0-155			2.59	21
(S) a,a,a-Trifluorotoluene(FID)					*94.6*	*95.4*		*78.0-120*				

Method Blank (MB)

(MB) R4070035-4 05/15/24 13:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
Isopropylbenzene	U		0.000105	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4070035-1 05/15/24 12:08 • (LCSD) R4070035-2 05/15/24 12:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00525	0.00490	105	98.0	70.0-123			6.90	20
Ethylbenzene	0.00500	0.00494	0.00444	98.8	88.8	79.0-123			10.7	20
Toluene	0.00500	0.00512	0.00485	102	97.0	79.0-120			5.42	20
Xylenes, Total	0.0150	0.0146	0.0132	97.3	88.0	79.0-123			10.1	20
Methyl tert-butyl ether	0.00500	0.00504	0.00512	101	102	68.0-125			1.57	20
Naphthalene	0.00500	0.00386	0.00390	77.2	78.0	54.0-135			1.03	20
1,2-Dibromoethane	0.00500	0.00561	0.00509	112	102	80.0-122			9.72	20
1,2-Dichloroethane	0.00500	0.00564	0.00517	113	103	70.0-128			8.70	20
Isopropylbenzene	0.00500	0.00466	0.00449	93.2	89.8	76.0-127			3.72	20
n-Propylbenzene	0.00500	0.00500	0.00440	100	88.0	77.0-124			12.8	20
1,2,4-Trimethylbenzene	0.00500	0.00498	0.00456	99.6	91.2	76.0-121			8.81	20
1,3,5-Trimethylbenzene	0.00500	0.00515	0.00481	103	96.2	76.0-122			6.83	20
(S) Toluene-d8				*98.9*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.9*	*98.5*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*92.1*	*92.9*	*70.0-130*				

Method Blank (MB)

(MB) R4068860-1 05/12/24 16:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Diesel Range Organics (DRO)	U		0.0667	0.200
Residual Range Organics (RRO)	U		0.0833	0.250
(S) o-Terphenyl	*60.5*			*52.0-156*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4068860-2 05/12/24 17:24 • (LCSD) R4068860-3 05/12/24 17:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1.50	1.24	1.27	82.7	84.7	50.0-150			2.39	20
(S) o-Terphenyl				*72.5*	*77.5*	*52.0-156*				

Method Blank (MB)

(MB) R4067680-2 05/08/24 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
2-Chloronaphthalene	U		0.0000682	0.000250
(S) Nitrobenzene-d5	*118*			*31.0-160*
(S) 2-Fluorobiphenyl	*125*			*48.0-148*
(S) p-Terphenyl-d14	*124*			*37.0-146*

Laboratory Control Sample (LCS)

(LCS) R4067680-1 05/08/24 14:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.00200	0.00245	122	67.0-150	
Acenaphthene	0.00200	0.00255	128	65.0-138	
Acenaphthylene	0.00200	0.00248	124	66.0-140	
Benzo(a)anthracene	0.00200	0.00246	123	61.0-140	
Benzo(a)pyrene	0.00200	0.00244	122	60.0-143	
Benzo(b)fluoranthene	0.00200	0.00261	131	58.0-141	
Benzo(g,h,i)perylene	0.00200	0.00250	125	52.0-153	
Benzo(k)fluoranthene	0.00200	0.00254	127	58.0-148	
Chrysene	0.00200	0.00269	134	64.0-144	
Dibenz(a,h)anthracene	0.00200	0.00256	128	52.0-155	
Fluoranthene	0.00200	0.00260	130	69.0-153	

Laboratory Control Sample (LCS)

(LCS) R4067680-1 05/08/24 14:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.00200	0.00271	135	64.0-136	
Indeno(1,2,3-cd)pyrene	0.00200	0.00237	118	54.0-153	
Naphthalene	0.00200	0.00253	126	61.0-137	
Phenanthrene	0.00200	0.00274	137	62.0-137	
Pyrene	0.00200	0.00265	133	60.0-142	
1-Methylnaphthalene	0.00200	0.00262	131	66.0-142	
2-Methylnaphthalene	0.00200	0.00261	131	62.0-136	
2-Chloronaphthalene	0.00200	0.00279	140	64.0-140	
(S) Nitrobenzene-d5			*130*	*31.0-160*	
(S) 2-Fluorobiphenyl			*140*	*48.0-148*	
(S) p-Terphenyl-d14			*132*	*37.0-146*	

Sample Narrative:

LCS: Reporting non detect results only, QC bais high.

L1732992-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732992-02 05/08/24 23:02 • (MS) R4067742-1 05/08/24 23:19 • (MSD) R4067742-2 05/08/24 23:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00190	ND	0.00248	0.00246	131	129	1	56.0-156			0.810	20
Acenaphthene	0.00190	ND	0.00227	0.00226	119	119	1	44.0-153			0.442	20
Acenaphthylene	0.00190	ND	0.00244	0.00243	128	128	1	53.0-150			0.411	20
Benzo(a)anthracene	0.00190	ND	0.00244	0.00246	128	129	1	47.0-151			0.816	20
Benzo(a)pyrene	0.00190	ND	0.00221	0.00221	116	116	1	45.0-146			0.000	20
Benzo(b)fluoranthene	0.00190	ND	0.00206	0.00206	108	108	1	43.0-142			0.000	20
Benzo(g,h,i)perylene	0.00190	ND	0.00204	0.00207	107	109	1	40.0-147			1.46	20
Benzo(k)fluoranthene	0.00190	ND	0.00204	0.00204	107	107	1	43.0-148			0.000	21
Chrysene	0.00190	ND	0.00231	0.00231	122	122	1	50.0-148			0.000	20
Dibenz(a,h)anthracene	0.00190	ND	0.00214	0.00214	113	113	1	37.0-151			0.000	20
Fluoranthene	0.00190	ND	0.00252	0.00251	133	132	1	56.0-157			0.398	20
Fluorene	0.00190	ND	0.00240	0.00238	126	125	1	48.0-148			0.837	20
Indeno(1,2,3-cd)pyrene	0.00190	ND	0.00207	0.00211	109	111	1	41.0-148			1.91	20
Naphthalene	0.00190	ND	0.00237	0.00239	125	126	1	10.0-160			0.840	20
Phenanthrene	0.00190	ND	0.00243	0.00242	128	127	1	47.0-147			0.412	20
Pyrene	0.00190	ND	0.00236	0.00238	124	125	1	51.0-148			0.844	20
1-Methylnaphthalene	0.00190	ND	0.00246	0.00245	129	129	1	21.0-160			0.407	20
2-Methylnaphthalene	0.00190	ND	0.00238	0.00238	125	125	1	31.0-160			0.000	20
2-Chloronaphthalene	0.00190	ND	0.00232	0.00233	122	123	1	52.0-148			0.430	20

L1732992-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732992-02 05/08/24 23:02 • (MS) R4067742-1 05/08/24 23:19 • (MSD) R4067742-2 05/08/24 23:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Nitrobenzene-d5					*129*	*127*		*31.0-160*				
(S) 2-Fluorobiphenyl					*119*	*118*		*48.0-148*				
(S) p-Terphenyl-d14					*115*	*114*		*37.0-146*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Martin S. Burck Assoc.-Hood River, OR

200 N. Wasco Ct.
Hood River, OR 97031

Billing Information:
Accounts Payable
200 N. Wasco Ct.
Hood River, OR 97031

Report to: Jon White

Email To: jwhite@msbaenvironmental.com;msba@msbae

Project Description: Steve?s Chevron ? The Dalles

City/State Collected: The Dalles, OR

Please Circle: PT MT CT ET

Phone: 541-387-4422

Client Project # Steve's Chevron

Lab Project # MSBAHROR-~~WHITE~~ Steve's Chevron

Collected by (print): Jon White

Site/Facility ID # Steve's Chevron

P.O. # Steve's Chevron

Collected by (signature): Jon White

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk	NWTPHDX,SV8270PAHSIM 4ozClr-NoPres	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	NWTPHGX,V8260 40mlAmb/MeOH 10ml/Syr	PAHSIMLVI 40mlAmb-NoPres-WT	V8260 40mlAmb-HCl	NWTPH-Dx (low level)	NWTPH-Gx	RBOM List VOCs - 8260	PAHs (8270E-SIM)	Remarks	Sample # (lab only)
T1 - GW		~~GW SS~~		5/2/24	18:21	9								X		X	X		-01
T3 - GW		GW		5/2/24	16:54	9									X	X			-02
		GW																	
		GW																	
		GW																	
		GW																	
		GW																	
		GW																	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1732847

Table #

Acctnum: MSBAHROR
Template: T251990
Prelogin: P1072627
PM: 841 - Kelly Mercer
PB: 4.29.24 BK

Shipped Via: FedEX Ground

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Jon White	5/3/24	13:00			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3=4.4 °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Christopher M. Tollison	Date: 5/4/24 Time: 0900	Hold: Condition: NCF / OK

Oregon
Tina Kotek, Governor

Department of Environmental Quality
Northwest Region
700 NE Multnomah Street, Suite 600
Portland, OR 97232
(503) 229-5263
FAX (503) 229-6945
TTY 711

June 18, 2024

Steve Palmer
Remlap Corp/Steve's Chevron
1700 W 6th St
The Dalles OR 97058

RE: UST Decommissioning Status
1700 W 6th St
DEQ UST Facility ID No. 1189

Dear Steve Palmer:

The Department of Environmental Quality (DEQ) has received and reviewed underground storage tank (UST) documents for closure of four decommissioned USTs at facility #1189, located at 1700 W 6th St., in The Dalles. The purpose of this letter is to document UST closure as required by Oregon Administrative Rule (OAR) 340-150-0168(10).

Based on DEQ review of the documents received, the work appears to have met the requirements of OAR 340-150-0168 for decommissioning by permanent closure. The original Service Provider is unable to provide the required Decommissioning Checklist and disposal receipts. The soil testing performed by the initial Service Provider was ambiguous. A subsequent Service Provider has determined, by means of a geophysical survey, that the USTs have been removed. Additional site assessment samples were collected and tested.

DEQ has changed the status of the tanks from active to closed, with a decommissioning date of June 18, 2024. DEQ files and database records show tank permits AGABC, AGABD, AGABE, and ADABG as inactive and decommissioned. The documents received are on file at the DEQ Northwest Region Office in Portland.

This letter is in no way related to any UST cleanup or other DEQ programs and is not intended to be a no further action letter for those purposes. The DEQ's determination will not be applicable if new or undisclosed facts show that the UST closure does not comply with the referenced rules.

As the Permittee you are required to maintain records of permanent closure, including the site assessment report and associated documents for three years after the permanent closure checklist and report have been reviewed by the DEQ. If the UST facility is sold within this time period, you must provide these records to the new property owner.

We appreciate your efforts to comply with the prescribed decommissioning rules for underground storage tanks. Should you have any questions, please feel free to contact me at 503-360-4287.

Sincerely,

Dave Pardue
UST Program Coordinator

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Thursday, June 27, 2024 3:46 PM
To: PAIKO Steven J * DEQ
Cc: DROUIN Mark * DEQ
Subject: FW: Steve's Chevron 1189/ Sheldon Petrol

Hi Steve-

Mark has approved closure of the USTs even though the late Dick Sheldon did not file a checklist/site assessment report. Martin S Burke has done additional sampling and investigation there to cover the bases.

Thanks,
Dave

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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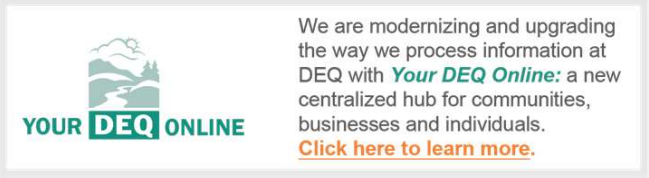
https://service.govdelivery.com/accounts/ORDEQ/subscriber/new?topic_id=ORDEQ_546



From: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Sent: Tuesday, June 18, 2024 8:27 AM
To: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Subject: RE: Steve's Chevron 1189/ Sheldon Petrol

Cool- will do. and yes, just UST closure, nothing to do with the release though it seems pretty minor and below cleanup levels. The tanks were removed as the geophysical showed they were missing. No receipts for disposal of tanks or contents...

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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From: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Sent: Monday, June 17, 2024 5:08 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Steve's Chevron 1189/ Sheldon Petrol

In the report from Marty did they give a narrative of what happened? Do they know what happened to the tanks? And this closure letter is just to close the tank permits and has nothing to do with any cleanup, correct??

Also, we shouldn't write a closure letter for the HOT. We would only have a very simple statement that the tank permits have been closed with a simple justification of why there is no checklist.

The justification can be very, contractor did not file the checklist and is no longer capable of producing documentation..... DEQ was on-site and observed the tanks being removed.... Refer to report dated xxx from Marty for more info....

But yeah – as long as this letter is not associated with a cleanup and the report supports the tanks are gone with appropriate sampling, I think that is appropriate for this situation.

Copy me on the email to Steve and I will approve the closing of the permits without the checklist for continuity.

Thanks!

From: PARDUE Dave * DEQ <Dave.PARDUE@deq.oregon.gov>
Sent: Monday, June 17, 2024 4:50 PM
To: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Subject: Steve's Chevron 1189/ Sheldon Petrol

So-

Sheldon removed tanks and did a poor job on the reporting- a bad map and samples that were not tied to depth or location by name... unacceptable. We never received the checklist.

Marty Burke was hired for site closure.

Geophys Id'd UST pit and MSBA dug test pits to sample sidewalls at SWI. Lines dug up, sampled. Dispensers sampled also.
Just received a good report that executes the sampling plan per my approval. All good stuff.
They want UST closure for the three USTs, WOT and HOT.

I can write a closure letter, and request of Steve that he edit the dbase to match since we have no checklist.
Would that work?

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
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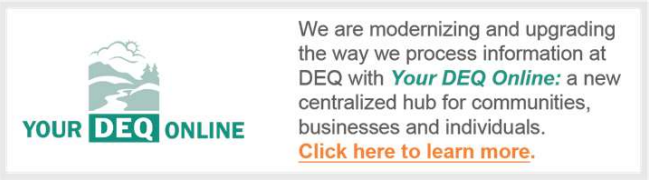

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Thursday, June 20, 2024 12:05 PM
To: 'Marty Burck'
Subject: RE: Former Steve's Chevron Facility 1189 Decommission Closure Letter

Hi Marty-

Nothing changes the NFA- that remains valid since no new or undisclosed information puts it into doubt.

Nor is a new LUST file called for since only trace detections appeared in your lab results.

So- go ahead with the fine point, just don't poke me with it!

Cheers,

Dave

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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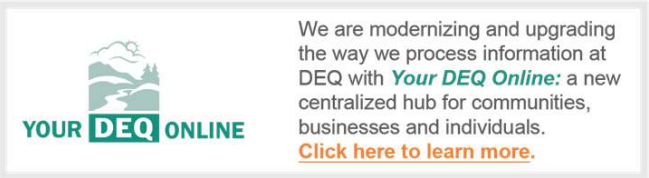

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Thursday, June 20, 2024 11:58 AM
To: PARDUE Dave * DEQ <Dave.PARDUE@deq.oregon.gov>
Subject: RE: Former Steve's Chevron Facility 1189 Decommission Closure Letter

Thanks Dave,
Just to be sure I have this right, now that the tank decommissioning is complete, there are currently no open files with DEQ ……. correct ? It is my understanding that the previous release received an NFA and that would still be valid. In other words, the site is currently in compliance with applicable regs related to USTs. Sorry for putting such a fine point on this but I don't want to misrepresent the current condition to the client or the prospective buyer.

Sincerely,

Marty Burck

Licensed Geologist OR, CA, WA

Martin S. Burck Associates, Inc.
Geologic and Environmental Consulting Services

Phone: 855 387 4422
mburck@msbaenvironmental.com

From: PARDUE Dave * DEQ <Dave.PARDUE@deq.oregon.gov>
Sent: Thursday, June 20, 2024 8:30 AM
To: Marty Burck <mburck@msbaenvironmental.com>
Subject: Former Steve's Chevron Facility 1189 Decommission Closure Letter

Hi Marty-

Attached please find the letter that closes the books on the decommissioning.
Note this does not affect any LUST status nor provide a NFA determination, if needed.

Please contact me with any questions.

Cheers,

Dave

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Thursday, June 20, 2024 8:30 AM
To: Marty Burck
Subject: Former Steve's Chevron Facility 1189 Decommission Closure Letter
Attachments: Facil 1189 Decom Closure 6.18.2024.pdf

Hi Marty-

Attached please find the letter that closes the books on the decommissioning.
Note this does not affect any LUST status nor provide a NFA determination, if needed.

Please contact me with any questions.

Cheers,

Dave

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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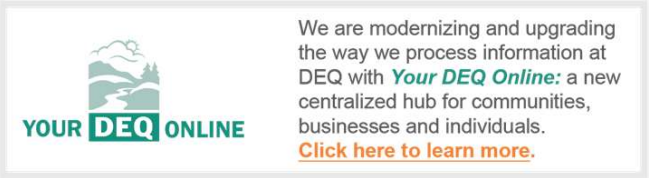

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Tuesday, June 18, 2024 4:22 PM
To: DROUIN Mark * DEQ
Subject: RE: Fac 1189 Closure

Cool, thanks! Will do.

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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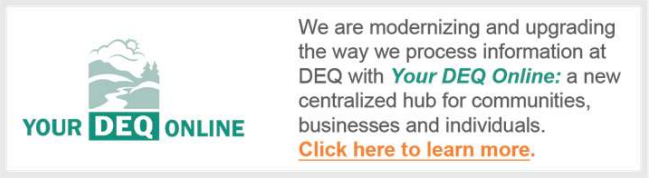

From: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Sent: Tuesday, June 18, 2024 4:17 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Fac 1189 Closure

Oh sorry, you did the research and the work, so I trust your judgement. If you stand by it send it out.

Steve just may want manager approval to close the permits without the decommissioning checklist but that is an internal process.

From: PARDUE Dave * DEQ <Dave.PARDUE@deq.oregon.gov>
Sent: Tuesday, June 18, 2024 4:14 PM
To: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Subject: FW: Fac 1189 Closure

Sorry- I sent a follow-up by Teams, but I don't always have it on.
Marty Burke would love you forever if you gave the nod sooner than later..

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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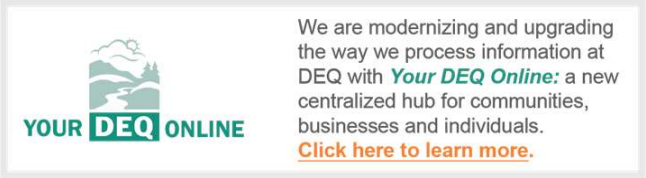

From: PARDUE Dave * DEQ
Sent: Tuesday, June 18, 2024 10:41 AM
To: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Cc: PAIKO Steven J * DEQ <Steven.J.PAIKO@deq.oregon.gov>
Subject: Fac 1189 Closure

Hi Mark-

Attached please find the UST closure letter. Dick Sheldon removed the tanks but never sent in a checklist. Marty Burke proposed sampling and geophys to confirm, and I agreed.

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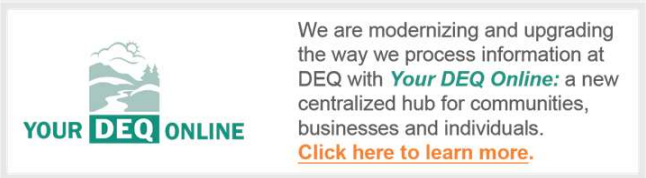

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Attachments: Facil 1189 Decom Closure 6.18.2024.pdf

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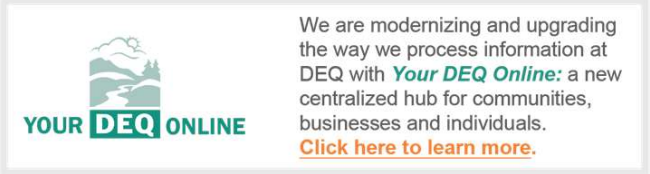

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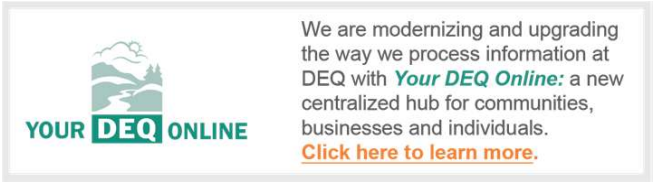
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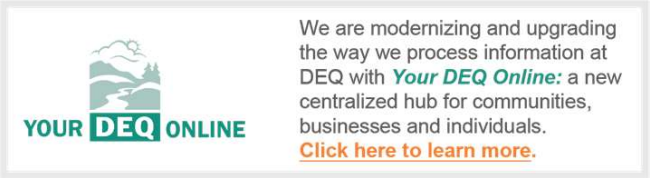

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Tuesday, June 18, 2024 8:27 AM
To: DROUIN Mark * DEQ
Subject: RE: Steve's Chevron 1189/ Sheldon Petrol

Cool- will do. and yes, just UST closure, nothing to do with the release though it seems pretty minor and below cleanup levels. The tanks were removed as the geophysical showed they were missing. No receipts for disposal of tanks or contents…

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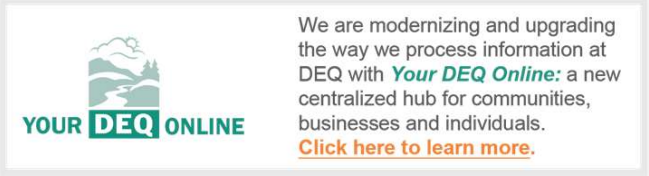

From: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Sent: Monday, June 17, 2024 5:08 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Steve's Chevron 1189/ Sheldon Petrol

In the report from Marty did they give a narrative of what happened? Do they know what happened to the tanks? And this closure letter is just to close the tank permits and has nothing to do with any cleanup, correct??

Also, we shouldn't write a closure letter for the HOT. We would only have a very simple statement that the tank permits have been closed with a simple justification of why there is no checklist.

The justification can be very, contractor did not file the checklist and is no longer capable of producing documentation…… DEQ was on-site and observed the tanks being removed…. Refer to report dated xxx from Marty for more info….

But yeah – as long as this letter is not associated with a cleanup and the report supports the tanks are gone with appropriate sampling, I think that is appropriate for this situation.

Copy me on the email to Steve and I will approve the closing of the permits without the checklist for continuity.

Thanks!

From: PARDUE Dave * DEQ <Dave.PARDUE@deq.oregon.gov>
Sent: Monday, June 17, 2024 4:50 PM
To: DROUIN Mark * DEQ <Mark.DROUIN@deq.oregon.gov>
Subject: Steve's Chevron 1189/ Sheldon Petrol

So-

Sheldon removed tanks and did a poor job on the reporting- a bad map and samples that were not tied to depth or location by name… unacceptable. We never received the checklist.

Marty Burke was hired for site closure.

Geophys Id'd UST pit and MSBA dug test pits to sample sidewalls at SWI. Lines dug up, sampled. Dispensers sampled also.
Just received a good report that executes the sampling plan per my approval. All good stuff.
They want UST closure for the three USTs, WOT and HOT.

I can write a closure letter, and request of Steve that he edit the dbase to match since we have no checklist. Would that work?

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PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Monday, June 17, 2024 3:58 PM
To: 'Marty Burck'
Subject: RE: Former Steve's Chevron

I know, right? I guess I love a challenge.

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
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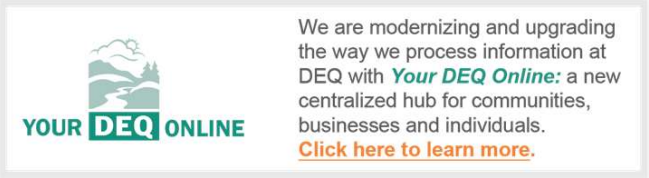

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Monday, June 17, 2024 3:30 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron

Wow, that's very impressive. Are you sure you want to raise the bar that high 😊😊😊

Sincerely,

Marty Burck

Licensed Geologist OR, CA, WA

MSBA
Martin S. Burck Associates, Inc.
Geologic and Environmental Consulting Services

Phone: 855 387 4422
mburck@msbaenvironmental.com

From: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Sent: Monday, June 17, 2024 3:10 PM
To: Marty Burck <mburck@msbaenvironmental.com>
Subject: RE: Former Steve's Chevron

Hi Marty-

I should be able to look at this and get a closure letter out by EOB tomorrow.
State offices are closed 6/19; so, if things get hairy, Thursday.

Regards,

Dave

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From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Monday, June 17, 2024 12:53 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Cc: Jon White <jwhite@msbaenvironmental.com>
Subject: Former Steve's Chevron

Hello Dave,
The results of our recent soil and groundwater investigation are presented in the attached report submitted for your review and comment. The purpose of this investigation was to complete the data gaps, and verify the results, of the previous SPS decommissioning. Based on the results of this work, the decommissioning compliance sampling has been completed, the previous SPS results were verified, and the site is compliant with the applicable UST regulations. Therefore, we recommend closure and a no-further-action determination.

This property is currently under contract to be sold with the intent to be redeveloped. Your prompt review of this report would be greatly appreciated by all interested parties. Please let Jon or I know if you have any questions, or if there is anything we can do to help expedite the process.

Sincerely,

Marty Burck

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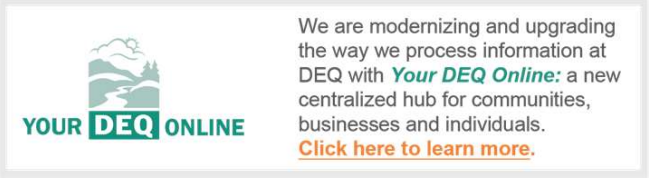

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Phone: 855 387 4422
mburck@msbaenvironmental.com

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Wednesday, May 1, 2024 10:22 AM
To: Marty Burck
Subject: Re: former Steve's Chevron - The Dalles

Hi Marty,

Sampling plan is approved with slight modifications: please move T 1 a bit to the NW to a position between the two former tanks. Also please add RBDM VOCs (short list) to the water sample from that location.

Cheers,

Dave

Sent via the Samsung Galaxy XCover Pro, an AT&T 4G LTE smartphone
Get Outlook for Android

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Wednesday, May 1, 2024 9:36:45 AM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: former Steve's Chevron - The Dalles

Good Morning Dave,
If I remember correctly, when we ended our conversation yesterday, you were planning to email your approval of the proposed sample locations and analytical strategy as we discussed, after you have a chance to give it some thought.. Am I right ?

Sincerely,

Marty Burck
Licensed Geologist OR, CA, WA

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PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Tuesday, April 30, 2024 4:34 PM
To: 'Marty Burck'
Subject: RE: Former Steve's Chevron - The Dalles

I watched 70-year-old steel tanks pulled in Boardman. Pristine. Good rectifier, good drainage, and lined. Could have lasted another 50 years I bet. Ya never know.

Dave Pardue
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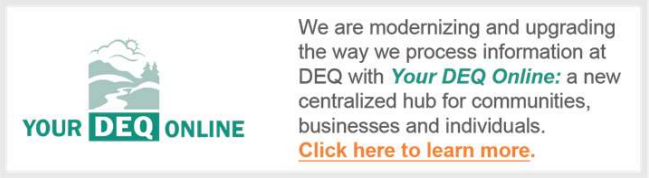

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Tuesday, April 30, 2024 3:54 PM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron - The Dalles

Dave,
Thanks for the link. Looks like we had all of this but its always good to verify. I was hoping you had a super secret stash files somewhere 😊.

FYI, I have verified that the product lines are fiberglass, at least from the dispensers to a junction box. Don't know about the line running to the back of the building (diesel) but assume it's the same. Of course, fiberglass can still leak but at least it didn't rust out. Metal tanks generally hold up pretty well in the gorge, at least compared to eastern/western OR/WA. Must be something to do with soil chemistry.

Sincerely,

Marty Burck

Licensed Geologist OR, CA, WA

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From: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Sent: Tuesday, April 30, 2024 9:58 AM
To: Marty Burck <mburck@msbaenvironmental.com>
Subject: RE: Former Steve's Chevron - The Dalles

Hi Marty-

Please see this link: https://ormswd2.synergydcs.com/HPRMWebDrawer/Record/6254249
For all the DEQ records from this site. Mostly useless I have to say. No depths were given for samples. Map appears to be incorrect….

Regards,
Dave

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From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Tuesday, April 30, 2024 8:44 AM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron - The Dalles

Thanks Dave,
I just learned of your appointment yesterday from Dylan. In case this was not part of your briefing with Dylan regarding backgroiund, the owner has a buyer and the property is currently under contract to be purchased. The new owner plans to develop the site as a gasoline station with above ground tanks. The closing is delayed until the open file for the UST decommissioning is resolved. The proposed scope of work is intended to address the data gaps from Sheldon's work in support of completing the required UST decom site assessment work. Please let me know if I can be of any further assistance to your effort.

Thanks again,
Sincerely,

Marty Burck

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From: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Sent: Tuesday, April 30, 2024 8:30 AM
To: ECKERT Dylan * DEQ <Dylan.ECKERT@deq.oregon.gov>; Marty Burck <mburck@msbaenvironmental.com>
Subject: RE: Former Steve's Chevron - The Dalles

Hello all-

I will be the DEQ point person for all decommissioning work moving forward.
Marty- I will get back to you once I have reviewed the file.

Thanks,

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From: ECKERT Dylan * DEQ <dylan.eckert@deq.state.or.us>
Sent: Monday, April 29, 2024 3:25 PM
To: Marty Burck <mburck@msbaenvironmental.com>; PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron - The Dalles

Hey Marty –

I thought I'd mentioned that Dave Pardue is the lead on this. …

Dave, please see this email… I also forwarded you two previous emails about this site.

Thanks,
Dylan

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Monday, April 29, 2024 3:08 PM
To: ECKERT Dylan * DEQ <dylan.eckert@deq.state.or.us>
Subject: Former Steve's Chevron - The Dalles

> You don't often get email from mburck@msbaenvironmental.com. Learn why this is important

Hi Dylan,
I have a quick question about Sheldon's sample depths at the main UST cavity and at the diesel UST cavity behind the building. If you know what they are please share that with me or call to discuss. I CC'd Jon who will be performing the field work this Thursday.

Sincerely,

Marty Burck
Licensed Geologist OR, CA, WA

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Sent: Tuesday, April 30, 2024 11:44 AM
To: 'Marty Burck'
Subject: RE: Former Steve's Chevron - The Dalles

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Thanks,

Dave

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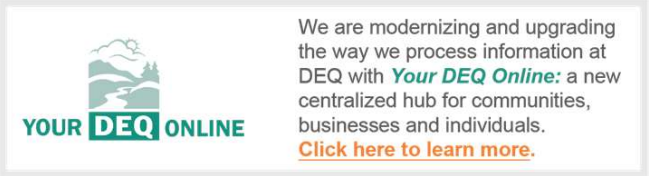

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To: ECKERT Dylan * DEQ <dylan.eckert@deq.state.or.us>
Subject: Former Steve's Chevron - The Dalles

> You don't often get email from mburck@msbaenvironmental.com. Learn why this is important

Hi Dylan,
I have a quick question about Sheldon's sample depths at the main UST cavity and at the diesel UST cavity behind the building. If you know what they are please share that with me or call to discuss. I CC'd Jon who will be performing the field work this Thursday.

Sincerely,

Marty Burck
Licensed Geologist OR, CA, WA

MSBA
Martin S. Burck Associates, Inc.
Geologic and Environmental Consulting Services

Phone: 855 387 4422
mburck@msbaenvironmental.com

PARDUE Dave * DEQ

From: PARDUE Dave * DEQ
Sent: Tuesday, April 30, 2024 9:58 AM
To: 'Marty Burck'
Subject: RE: Former Steve's Chevron - The Dalles

Hi Marty-

Please see this link: https://ormswd2.synergydcs.com/HPRMWebDrawer/Record/6254249
For all the DEQ records from this site. Mostly useless I have to say. No depths were given for samples. Map appears to be incorrect….

Regards,
Dave

Dave Pardue
Underground Storage Tank Program Coordinator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
503-229-6085
Pronouns: He/Him/His

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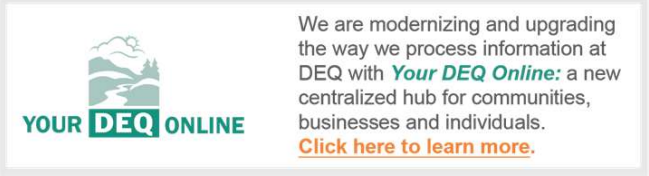
https://service.govdelivery.com/accounts/ORDEQ/subscriber/new?topic_id=ORDEQ_546



From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Tuesday, April 30, 2024 8:44 AM
To: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron - The Dalles

Thanks Dave,
I just learned of your appointment yesterday from Dylan. In case this was not part of your briefing with Dylan regarding backgroiund, the owner has a buyer and the property is currently under contract to be purchased. The new owner plans to develop the site as a gasoline station with above ground tanks. The closing is delayed until the open file for the UST decommissioning is resolved. The proposed scope of work is intended to address the data gaps from Sheldon's work in support of completing the required UST decom site assessment work. Please let me know if I can be of any further assistance to your effort.

Thanks again,
Sincerely,
Marty Burck

Licensed Geologist OR, CA, WA

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Geologic and Environmental Consulting Services

Phone: 855 387 4422
mburck@msbaenvironmental.com

From: PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Sent: Tuesday, April 30, 2024 8:30 AM
To: ECKERT Dylan * DEQ <Dylan.ECKERT@deq.oregon.gov>; Marty Burck <mburck@msbaenvironmental.com>
Subject: RE: Former Steve's Chevron - The Dalles

Hello all-

I will be the DEQ point person for all decommissioning work moving forward.
Marty- I will get back to you once I have reviewed the file.

Thanks,

Dave Pardue
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From: ECKERT Dylan * DEQ <dylan.eckert@deq.state.or.us>
Sent: Monday, April 29, 2024 3:25 PM
To: Marty Burck <mburck@msbaenvironmental.com>; PARDUE Dave * DEQ <Dave.Pardue@deq.oregon.gov>
Subject: RE: Former Steve's Chevron - The Dalles

Hey Marty –

I thought I'd mentioned that Dave Pardue is the lead on this. …

Dave, please see this email… I also forwarded you two previous emails about this site.

Thanks,
Dylan

From: Marty Burck <mburck@msbaenvironmental.com>
Sent: Monday, April 29, 2024 3:08 PM
To: ECKERT Dylan * DEQ <dylan.eckert@deq.state.or.us>
Subject: Former Steve's Chevron - The Dalles

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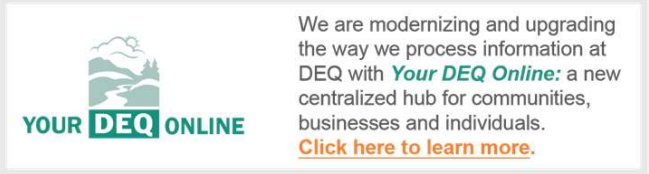

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