



**Underground Storage Tank  
System Removal and Cleanup  
Action Report**

**The Hungry Whale  
1680 North Montesano Street  
Westport, Washington 98595**

Ecology Facility Site ID: #1127  
Ecology Cleanup Site ID: #4988  
Ecology Agreed Order ID: DE 20344

Prepared for:  
The Port of Grays Harbor  
111 South Wooding Street  
Aberdeen, WA 98520

Prepared by:  
Stantec Consulting Services Inc.  
1687 114th Avenue SE, Suite 100  
Bellevue, Washington 98004

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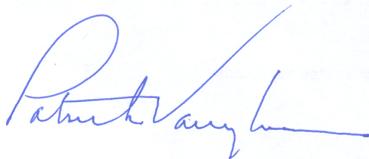
## Sign Off Sheet

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Prepared by \_\_\_\_\_  
(signature)

**Carol B. Shesteg**  
Senior Geologist



Reviewed by \_\_\_\_\_  
(signature)

**Patrick Vaughan, MS**  
Principal, Facility and Risk Assessment



Approved by \_\_\_\_\_  
(signature)

**Marc Sauze, PE**  
Principal Environmental Engineer/Senior Project Manager



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## Abbreviations and Acronyms

|          |  |
|----------|--|
| ACM      | asbestos-containing material   |
| AEC      | Anderson Environmental Contracting, LLC  |
| BTEX     | Assessor Parcel Number   |
| bgs      | below ground surface   |
| BTEX     | benzene, toluene, ethylbenzene, and total xylenes  |
| CAP      | Cleanup Action Plan  |
| CAR      | cleanup action report  |
| CDF      | Control Density Fill   |
| cPAH     | Carcinogenic Polycyclic Aromatic Hydrocarbon   |
| CSWGP    | Construction Stormwater General Permit   |
| CUL      | Cleanup Level  |
| DNS      | Determination of Non-Significance  |
| Ecology  | Washington State Department of Ecology   |
| EDR      | Engineering Design Report  |
| EPA      | United States Environmental Protection Agency  |
| Guidance | Ecology's <i>Site Assessment Guidance for Underground Storage Tank Systems</i> , January 2021 – revised October 2022 |
| HASP     | Health and Safety Plan   |
| ICC      | International Code Council   |
| LBP      | lead-based paint   |
| MTCA     | Model Toxics Control Act   |
| ORCAA    | Olympic Region Clean Air Agency  |
| PID      | Photoionization Detector   |
| Port     | Ports of Grays Harbor  |
| Property | Hungry Whale parcel of land at 1680 North Montesano Street, Westport   |
| QAPP     | Quality Assurance Program Plan   |
| RI/FS    | Remedial Investigation/Feasibility Study   |
| RBM      | regulated building material  |
| RL       | remediation level  |
| SAP      | Sampling and Analysis Plan   |
| SEPA     | State Environmental Policy Act   |
| SPH      | separate phase hydrocarbons  |
| Stantec  | Stantec Consulting Services Inc.   |



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|         |  |
|---------|--|
| SWPPP   | Stormwater Pollution Prevention Plan                             |
| TPH-D   | Total Petroleum Hydrocarbons as Diesel                           |
| TPH-G   | Total Petroleum Hydrocarbons as Gasoline                         |
| TPH-O   | Total Petroleum Hydrocarbons as Oil                              |
| UDC     | Under Dispenser Containment                                      |
| UST     | Underground Storage Tank   |
| VPH/EPH | Volatile Petroleum Hydrocarbon/Extractable Petroleum Hydrocarbon |
| WAC     | Washington Administrative Code                                   |



Introduction  
January 3, 2024

## 1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) was retained by the Port of Grays Harbor (Port) to provide oversight, soil sampling, and documentation for the removal of the underground storage tank (UST) system; excavation and offsite disposal of impacted soil; and extraction, treatment, and offsite discharge of impacted shallow groundwater at the Hungry Whale site (Site) located at 1680 North Montesano Street in Westport, Washington (**Figures 1 and 2**). This combined UST removal and Cleanup Action Report (CAR) was prepared in accordance with Washington Administrative Code (WAC) 173-340-400 (6)(b) and with Appendix F of Washington State Department of Ecology (Ecology) *Site Assessment Guidance for Underground Storage Tank Systems (Guidance Publication 21-09-050* dated January 2021, revised October 2022).

Field activities were preceded by the submittal of project planning documents to and approval by Ecology, including a *Remedial Investigation/Feasibility Study* (RI/FS; Stantec 2020), the *Cleanup Action Plan* (CAP; Ecology, 2022), and the *Engineering Design Report* (EDR; Stantec 2022). As detailed herein, additional project approvals were obtained from Ecology and other local oversight agencies. Work was performed under Ecology Agreed Order DE20344.

The UST removal work, excavation dewatering, and associated impacted soil excavation with offsite transportation and disposal was conducted in August 2023, with site restoration and equipment demobilization continuing into September 2023.

All earthwork, building demolition/infrastructure removals, monitoring well abandonments, UST and impacted soil removal, excavation dewatering/treatment, and site restoration work were performed by Anderson Environmental Contracting, LLC (AEC of Kelso, WA; the Port's General Contractor). Work was conducted in accordance with Ecology's *Guidance Publication 21-09-050* and with Ecology's updated UST regulations under WAC 173-360A (July 2018). UST decommissioning and site assessment sampling activities were performed by a certified UST Decommissioner and a certified Site Assessor as required by WAC 173-360A-930(4) and 173-360A-930(3), respectively.

### 1.1 PROJECT PURPOSE

As outlined in the CAP, the purpose of the work was to observe and document the removal of three pre-existing USTs, the UST system components (dispensers, under dispenser containment [UDC], product piping, vent piping), and the removal of as much impacted soil as feasible from the Site. The work included documentation of subsurface soil conditions and identification of remaining impacted soil following excavation.

As detailed in this report, the three former USTs at the Site consisted of one 20,000-gallon, 3-compartment steel UST (the only recently-active UST); one 10,000-gallon previously abandoned-in-place steel UST (originally thought to be a 6,000-gallon UST); and one 2,000-gallon previously abandoned-in-place steel UST. The UST abandoned-in-place work had been performed by others in March 1991 and consisted of filling the two USTs with controlled density fill (CDF).



## 1.2 SCOPE OF WORK

The project's primary scope of work consisted of the following tasks:

- Preparation of a Site-specific Health and Safety Plan (HASP).
- Conducting pre-demolition regulated building materials (RBM) surveys for suspect asbestos-containing materials [ACM] and lead-based paint [LBP]. Work was performed in mid-2021.
- Obtaining permits/approvals from local agencies for the planned building demolition, groundwater monitoring abandonments, soil excavation, dewatering/treatment, and backfilling activities.
- Contacting OneCall/Northwest Utility Notification Center for the public utility locate and subcontracting a private utility-locating firm to mark and identify onsite utilities.
- Excavating several test pits along the perimeter of the planned soil remediation footprint to evaluate current soil conditions (no soil sampling had been conducted since 2007).
- Abandoning on-Property groundwater monitoring wells located within the excavation footprint prior to and during remedial excavation.
- Conducting building demolition and infrastructure removal.
- Submitting the 30-day UST removal notification to Ecology.
- Observing and documenting the UST, dispensers/UDC, product and vent piping removals.
- Inspecting the condition of the USTs, UDCs, and product and vent piping upon removal.
- Collecting and analyzing compliance soil samples from UST excavations, from beneath the product lines and dispensers, and from the soil stockpile per Ecology *Guidance Publication 21-09-050*.
- Excavating and loading impacted soil with subsequent offsite transportation and disposal.
- Extracting and treating impacted shallow groundwater with subsequent permitted offsite discharge.
- Collecting and analyzing post-excavation confirmation soil samples.
- Preparing this UST removal and CAR for the Site.

Soil and shallow groundwater assessment, periodic groundwater monitoring and sampling, and previous interim actions have been conducted at the Site since 1991. Details of these activities and Site history have been submitted to Ecology and are included in the RI/FS and the CAP and are summarized in **Section 2.2**. A Site Plan with these historic sample locations is provided as **Figure 2**, and tabulated soil and groundwater data and iso-concentration maps are provided in **Appendix A**.



Site Description  
January 2, 2024

## 2.0 SITE DESCRIPTION

### 2.1 SITE LOCATION AND DESCRIPTION

The Site is located at 1680 North Montesano Street in Westport, Washington at the east corner of the intersection of North Montesano Street and Wilson Avenue (**Figure 1**).

The Site is owned by the Port and until recently, was operated as a convenience store and fuel dispensing facility. The Site is a small portion of the larger, Port-owned, Grays Harbor County Tax Assessor Parcel Number (APN) #616120142001 and is situated in the western-most corner of the same APN #616120142001. The Site is a nearly square-shaped parcel with sides of approximately 150, 151, 155, and 173 feet in length. The Site is in the northeast quarter of the southeast quarter of Section 1, Township 16 North, Range 12 West, Willamette Baseline and Meridian.

As shown in **Figure 2**, the former convenience store and two dispenser pumps were located in the west portion of the Site. The single active 20,000-gallon UST was located in the south portion of the Site and the two previously abandoned-in-place USTs were located close to the south corner of the convenience store and near the dispensers in the west-central portion of the Site. According to Ecology, a third former UST was removed from the Site. An above-ground propane tank was previously located in the south portion of the Site. A storage building and a residence were located in the north and east portions of the Site, respectively, and were demolished as part of these project activities.

### 2.2 SITE ENVIRONMENTAL HISTORY

As noted at the end of **Section 1.2**, prior reports detailing Site history and results of prior subsurface investigations have been submitted to Ecology. In summary, the recently-demolished facility has been constructed in the mid-1970s and, since that time, the Site had always operated as a convenience store and fueling station. The original USTs were decommissioned/abandoned in March 1991 and the single 20,000-gallon UST was installed in the south portion of the Site.

Subsurface investigations reveal impacted soil and shallow groundwater with gasoline-related constituents above Model Toxics Control Act (MTCA) Method A cleanup levels (CULs).

A brief summary of Site environmental work is as follows:

- March 1991: soil samples collected during original UST abandonment work revealed impacted soil with fuel-related petroleum hydrocarbons at concentrations above MTCA Method A CULs.
- November 1991 and May 1992: nine (9) shallow groundwater monitoring wells were installed at the Site and impacted shallow groundwater revealed fuel-related dissolved-phase petroleum hydrocarbons above MTCA Method A CULs. Measurable thicknesses of separate phase hydrocarbons (SPH) were reported in several monitoring wells at the Site during four groundwater monitoring and sampling events conducted between late 1991 and 1993.



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- From July 1997 to October 1999, a bio-spargue remediation system (consisting of injection and extraction wells) operated. Hydrocarbon concentrations in shallow groundwater declined during system operation but rebounded to pre-treatment concentrations by November 2000.
- January 2005: three additional on-Property soil borings/groundwater monitoring wells and four off-Property monitoring wells were installed with the highest concentrations in shallow groundwater well samples observed in the south portion of the Hungry Whale parcel. An unrecorded thickness of SPH was reported in a metal culvert offsite and south of the Hungry Whale parcel.
- April, June, and October 2007: additional on- and off-Property assessment was conducted (21 direct-push soil borings were advanced and six [6] shallow groundwater monitoring wells were installed). Impacted soil and shallow groundwater above MTCA Method A CULs were detected in on-Property borings, in off-Property borings beneath North Montesano Street (west/southwest of the Hungry Whale parcel), and in off-Property borings beneath Wilson Avenue (north of the Hungry Whale parcel). Groundwater samples from the on-Property wells revealed impacted groundwater above MTCA Method A CULs. Groundwater samples from the two off-Property wells (MW-24 located west of the Hungry Whale parcel and MW-25 located southwest of the Hungry Whale parcel), however, did not contain detectable hydrocarbons. Remediation of the SPH in the metal culvert south of the Hungry Whale parcel was performed.
- From November 2011 to May 2021: periodic groundwater well monitoring and sampling were conducted, the results of which reveal gasoline-related impacted groundwater above MTCA Method A CULs at on-Property wells MW-02, MW-04, MW-07, MW-09, MW-10, MW-12, and MW-20 through MW-23. Remaining on-Property wells MW-11 and MW-21 showed no impacts (except MW-11 revealed a one-time MTCA Method A CUL exceedance of benzene in November 2011). Off-Property wells MW-01, MW-03(JR), MW-05, MW-06, MW-13, MW-14, MW-24, and MW-25 showed no MTCA Method A CUL exceedances (except MW-25 revealed one-time exceedance of total petroleum hydrocarbons as gasoline [TPH-G] and benzene in April 2016).
- In December 2011 and March 2012, soil gas sampling and vapor intrusion assessment were conducted at the Site. Seven (7) exterior soil gas probes were installed. Elevated soil gas concentrations above screening levels at the time (Table B-1 of Ecology's *Guidance for Evaluating Soil Vapor Intrusion in Washington State, Review Draft, October 2009*) were detected in the central and southern portions of the Site (mirroring elevated soil and shallow groundwater impacts) with some of the two highest detections recorded in the two probes closest to the convenience store building. As such, indoor and outdoor vapor samples were subsequently collected, the results of which were below the 2009 *Table B-1* screening levels.

**Figure 2** shows the pre-remediation sample locations. For ease of review, pre-remediation tabulated soil and shallow groundwater data (including iso-concentration maps) are provided in **Appendix A**. In addition to the Site history summarized above, Stantec conducted preliminary, low-flow, steady-state, groundwater drawdown testing in May 2021, the results of which showed no to very little response at the closest monitoring wells located at lateral distances of 35 to 40 feet from the pumping well.



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### 2.3 SITE ZONING AND SURROUNDING LAND USE

The Site is subject to commercial and industrial use (consistent with Site’s former use as a fueling station and consistent with surrounding current land use) and, per Grays Harbor tax assessor information, is within a Mixed-Use Tourist Commercial I (MUTC-1) zoning district.

Surrounding land use is as follows:

| Direction | Bordering Properties   |
|-----------|--|
| North     | Wilson Avenue is located to the north with vacant land across Wilson Avenue and with several large warehouses occupied by Westport Shipyard further north/northwest beyond the vacant land. To the northeast (approximately 50 feet of the Site boundary) is a currently vacant restaurant.  |
| East      | Vacant land is located east (owned by the Port) and additional vacant land is located to the southeast. Further southeast is a small commercial building with a small former go-cart racetrack. East of the go-cart racetrack is the Ocean Cold, LLC facility (a cold-storage seafood warehouse).  |
| South     | Vacant land (owned by the Port) is located to the south. Further south and south/southwest of the go-cart racetrack is the Westport Airport (a general aviation facility with a single runway) and several small commercial businesses.  |
| West      | West of the Site is the intersection of North Montesano Street and Wilson Avenue. West/northwest of the intersection is the 79-acre, open-space Westhaven State Park. Southwest of the intersection and west of the Site (across North Montesano Street) is Englund Marine Supply. West/southwest of Englund Marine is the Holand Center RV Park and several small marine-related commercial businesses. South of Englund Marine is vacant land and further south is a relatively large self-service storage facility (lockable units with rollup doors and exterior motor-home/boat/vehicle storage). South of the storage facility is a three-pump, self-service fueling facility operated by Masco Petroleum. |



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## 2.4 TOPOGRAPHY, GEOLOGY, AND HYDROLOGY

Detailed descriptions of the regional and Site topography, geology, and hydrology were included in our prior reports and a brief summary of Site data is included herein. The ground surface elevation at the Site is approximately 12.5 to 14 feet above mean sea level and is relatively flat. Surface topography beyond the Site boundaries gently undulates.

Based on Site boring logs, near-surface material at the Hungry Whale parcel (from ground surface to depths ranging from approximately 5 to 7 feet below ground surface [bgs]) consists of fine-grained sand with minor silt and gravel, interpreted to be fill or marsh deposits. In the center and the southeast portions of the Hungry Whale parcel, a silty clay/clayey silt layer was observed at the base of the fill/marsh deposits at depths of approximately 6.5 feet that may be representative of dredged marsh or tidal flat sediments that were historically imported as fill. The thickness of the fill decreases significantly at the off-parcel borings.

Native soil beneath the fill consists of fine- to medium-grained sand with varying amounts of silt, interpreted to be eolian and/or shallow marine deposits. The exception to this overall lithology is found at B-20/MW-20 (located in the center of the property between the former USTs and the current USTs) and drilled to a depth of 30 feet bgs (deeper than most of the other borings/wells). At this location, native soil has a higher percentage of silt as indicated by “silty sand (SM)” on the boring log to a depth of 25 feet. From 25 to 30 feet bgs, soil coarsens to medium-grained sand with some coarse sand and fine gravel.

This near-surface fill and underlying predominantly sand native lithology were observed and confirmed during the remedial impacted soil excavation documented herein (**Section 4.2**)

Based on shallow groundwater gauging data measured between 2007 and 2021, depth to groundwater ranges from approximately 4 to 8 feet bgs with higher groundwater levels occurring during the wet seasons and lower levels during the drier summer months. Shallow groundwater was confirmed at depths of approximately 8 to 9 feet bgs during the recently-completed remedial soil excavation that required dewatering so that soil excavation could reach to depths of 15 feet bgs.

## 2.5 FORMER UNDERGROUND STORAGE TANKS

Based on UST removal work documented herein and on Ecology UST records, the following table summarizes the former USTs at the Site.

| Tank ID         | Tank Type and Volume      | Substance Stored      | Date Installed | Date Decommissioned                                       | Date Removed |
|-----------------|---------------------------|-----------------------|----------------|---|--------------|
| 1-U*/<br>UST1** | 10,000-gallon***<br>steel | Unleaded<br>Gasoline* | ~mid 1970s     | March 1991<br>(abandoned in<br>place; filled with<br>CDF) | 8/4/2023     |



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| Tank ID                  | Tank Type and Volume               | Substance Stored                         | Date Installed | Date Decommissioned                                 | Date Removed |
|--------------------------|------------------------------------|--|----------------|---|--------------|
| 2-R*/<br>UST3**          | 2,000-gallon**                     | Leaded Gasoline*                         | ~mid 1970s     | March 1991<br>(abandoned in place; filled with CDF) | 8/9/2023     |
| 1-<br>20,000*/<br>UST2** | 20,000-gallon, 3-compartment steel | 10K Unleaded<br>6K Unleaded<br>4K Diesel | 1991           | ---   | 8/11/2023    |
| 3-D*                     | Unknown size, steel*               | Diesel*                                  | ~mid 1970s     | March 1991*   | March 1991*  |

\* Ecology information/identifier.

\*\* Stantec information/identifier.

\*\*\* Originally thought to be 6,000 gallons but as measured in the field by Stantec on August 4, 2023, it is a 10,000-gallon UST.

## 2.6 REGULATORY STATUS

As outlined in **Section 1**, the Site is currently under Ecology Agreed Order DE 20344. Based on Ecology databases, additional Site/facility identifiers are shown in the following table.

| Ecology Database                   | Regulatory Site Identification (ID) Numbers |
|------------------------------------|---|
| Facility Site Identification (ID): | 1127  |
| Cleanup Site ID:                   | 4988  |
| UST ID:                            | 3488  |
| Agreed Order (current):            | DE 20344                                    |
| Agreed Order (former):             | DE 94-S388; DE 3812                         |



Permitting and Initial Field Activities  
January 3, 2024

## 3.0 PERMITTING AND INITIAL FIELD ACTIVITIES

### 3.1 PERMITTING AND PROJECT APPROVALS

As outlined in the CAP and EDR documents, the following agencies were identified and contacted for their known or anticipated project permits/notices and/or approvals:

- Ecology UST closure/removal form (“30-day Notice”).
- Ecology Construction Stormwater General Permit (CSWGP).
- Ecology State Environmental Policy Act (SEPA) Determination of Nonsignificance (DNS).
- Olympic Region Clean Air Agency (ORCAA) Notification of Demolition.
- City of Westport Demolition Permit.
- City of Westport Sewer and Water Permit.
- City of Westport Fill and Grade Permit.

#### Ecology Permits/Notifications/Approvals

For initial project permitting purposes and on behalf of the Port, Stantec completed the SEPA Checklist (dated July 15, 2021) which outlined project highlights and which the Port subsequently submitted to Ecology. A *draft CAP* (dCAP with detailed Site environmental history, RIFS’ summary of remedial options, anticipated CULs and Site-specific remediation levels [RLs], the selected remedial alternative, and a proposed schedule of project implementation) was prepared by Stantec and submitted to Ecology on October 18, 2021.

On May 3, 2022, Ecology issued its DNS, a copy of which is provided in **Appendix B**. The *Final CAP* was prepared and issued on July 14, 2022. Stantec prepared and submitted to Ecology the *Engineering Design Report* (EDR; dated December 22, 2022) which included details of the planned field work, a Sampling and Analysis Plan/Quality Assurance Program Plan (SAP/QAPP), a Site-specific HASP, and a Civil Plan Set of construction drawings.

A Notice of Intent/Application for coverage under an Ecology CSWGP was submitted by the Port to Ecology. As part of the application package, Stantec prepared and submitted a *Stormwater Pollution Prevention Plan* (SWPPP; dated February 15, 2023) to Ecology. On April 18, 2023, Ecology issued CSWGP Number WAR312143 which included requirements for the submittal of discharge monitoring reports and Ecology contacts/information for the potential submittal of additional planning documents. A copy of Ecology’s April 18, 2023 issued permit is provided in **Appendix B**.

Following email correspondence with Ecology, Stantec prepared and submitted a *Technical Memorandum* (dated July 7, 2023) providing details of the temporary dewatering treatment system and requesting Ecology approval. Via July 12, 2023 email from Ecology, approval was granted (**Appendix B**).



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In anticipation of the UST removals, the 30-Day Notice was prepared and submitted to Ecology by AEC on June 21, 2023, and again on July 13, 2023. A copy of the Notice is provided in **Appendix B**. AEC also made the requested three-day email notification to Ecology representative Mr. Dustin Mimnaugh (**Appendix B**).

In anticipation of well abandonment for groundwater monitoring wells located within the impacted soil remedial excavation footprint, Stantec contacted Ecology regarding abandonment methods for wells with boring logs/well construction details/well tags, inaccessible or “unable to locate” wells without boring logs/well construction details, and/or “not-drilled” tank pit observation wells. Ecology responded with approved well abandonment methods for all three types of wells (**Appendix C**).

### **City of Westport Notifications/Approvals**

On April 17, 2023, the City of Westport granted approval of the project’s planned discharge of treated groundwater to the City’s “stormwater ditch system.” A copy of the City’s approval email is provided in **Appendix D**.

The City of Westport permits (demolition, sewer and water, and fill and grade) were facilitated by the Port and in-place during demolition, sewer and water line decommissioning, and fill and grade activities.

### **ORCAA Notifications/Approvals**

On behalf of the Port and for the planned building demolition work, Stantec completed and submitted the preliminary notification form to ORCAA on January 9, 2023.

Backup ACM and LBP documentation (including a copy of Stantec’s *Regulated Building Materials Survey Report* dated August 24, 2021, for field and analytical work conducted in late June - early July 2021) was subsequently submitted to ORCAA with the final notifications made to ORCAA on July 11, 2023 (14 days prior to the planned demolition activities). Copies of the ORCAA notifications/responses are provided in **Appendix D**.

## **3.2 HEALTH AND SAFETY PLAN (HASP)**

Stantec prepared a Site-specific HASP for the planned UST removals, impacted soil excavation/loading/offsite transport, and excavation dewatering/treatment/offsite discharge. The HASP identified potential physical, chemical, and biological hazards associated with the proposed field activities; established personal protection standards and mandatory safety practices; and included information on suspected chemical compounds to be encountered, monitoring equipment, required protective clothing and equipment, maps and directions to the nearest hospital and Urgent Care clinic, and emergency telephone numbers.

The HASP was available on-Site during the field activities. Stantec personnel and all contractors working on-Site were required to review, sign, and comply with the HASP.



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### 3.3 EXPLORATORY TEST PITS

On June 26 and 27, 2023, Stantec oversaw the excavation of nine test pits (TPs) located along the perimeter of the footprint of the planned impacted soil remedial excavation: TP-1, TP-3, TP-4, TP-6, and TP-10 through TP-14 (refer to Test Pit Location **Figure E1** in **Appendix E**). The primary purpose of the test pits was to document current soil conditions as no soil samples had been collected or analyzed since 2007.

A secondary purpose for the test pits was to evaluate estimated depth to shallow groundwater shortly before UST removal and impacted soil remedial excavation work, and to observe a rough order-of-magnitude seepage rate for shallow groundwater entering the test pits (information that was used for the subsequent remedial excavation dewatering activities).

Prior to TP excavation, OneCall/Northwest Utility Notification Center (1-800-454-5555 or 811) and a private utility locator were contacted to locate and mark underground utilities. AEC performed the TP excavation work. The nine test pits ranged in depth from 7.5 to 13.5 feet bgs. Excavated soil was field-screened by Stantec for potential hydrocarbon impacts using a portable photoionization detector (PID; see detailed field-screening methods described in **Section 4.3**). Test pit locations, total depths, and PID measurements at each test pit are shown on **Figure E1** in **Appendix E**.

One to two soil samples per test pit were collected in accordance with Environmental Protection Agency (EPA) Sampling Method 5035A and transported to a WA-certified environmental laboratory (PACE Analytical based in Mt. Juliet, TN). Details of sample collection, handling, and chain-of-custody protocols are also described in **Section 4.3**.

A total of 13 soil samples were collected from the test pits: 11 assessment samples, one duplicate (DUP-01, the original sample was TP-3-8'), and one Trip Blank.

All 13 soil samples were analyzed for the following:

- TPH-G using Ecology method NWTPH-Gx; and
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) using EPA Test Method 8260D.

Four of the 13 samples (TP-1-8'; TP-6-7.5'; TP-10-7.5'; and TP-11-11') were additionally analyzed for:

- Total petroleum hydrocarbons as diesel and oil (TPH-D and TPH-O) using Ecology NWTPH-Dx;
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) using EPA Test Method 8270E-SIM; and
- Resource Conservation and Recovery Act 8 Priority Pollutants Metals (total, not soluble or leachable) using EPA Test Method 7471B/6010D.

Except for two soil samples (TP-12-11.5' and TP-14-13.5'), soil from the test pits was impacted with petroleum hydrocarbons at concentrations above MTCA Method A CULs. Soil analytical results are shown in **Tables 1A and 1B**. These data were also used for waste profiling purposes. Laboratory certificates of analyses are provided in **Appendix E**.



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Following soil sampling, the test pits were temporarily backfilled with their excavated material (for final removal during subsequent remedial soil excavation work; see **Section 4.2**).

### 3.4 MONITORING WELL ABANDONMENTS

Groundwater monitoring well abandonments for wells located within the impacted soil remedial excavation footprint were performed by AEC prior to and during impacted soil excavation/UST removal.

Four groundwater monitoring wells for which boring logs/well construction details and/or well tags existed included: MW-02/AKF-194; MW-20/APL-950; MW-22/ALN-595; and MW-23/ALN-851. These four wells were abandoned on July 27, 2023 (prior to impacted soil excavation) by filling the well casings with bentonite chips. Copies of AEC's well abandonment logs are provided in **Appendix C**.

During excavation/UST removal activities, "lost" groundwater monitoring well MW-4 (for which there was no boring log/well construction details/well tag) and MW-7 (located very close to the 20,000-gallon UST) were encountered. Excavation at these two locations extended to depths of 15 feet bgs: this is deeper than the approximate 10-foot depth of MW-7 and slightly above the approximate 17-foot depth of MW-4 (the total well depths as measured by Stantec during past groundwater monitoring and sampling events). The casings and other construction materials for both wells were removed. The casings were disposed offsite along with other construction debris and the sand pack/bentonite were added to the impacted soil stockpile that was transported offsite.

Tank pit observation well MW-12 (not drilled but simply placed in the 20,000-gallon UST backfill gravel during tank installation in 1991) was removed when this 20,000-gallon tank (UST3) was removed. Its casing was removed and disposed offsite along with other construction debris.

### 3.5 BUILDING DEMOLITION AND INFRASTRUCTURE REMOVAL

Building demolition (convenience store, the northern storage warehouse, and the eastern residence), the removal of the dispenser island canopy, and infrastructure removal were coordinated and/or conducted by AEC. Stantec's August 24, 2021 *Regulated Building Materials Survey Report* was provided to AEC.

Prior to demolition, all utility services to the Site were shut off.

Known and suspect RBMs were removed by Safeguard Abatement, LLC (a licensed abatement contractor based in Yakima, WA) with planned disposal of these materials at Finley Buttes Regional Landfill in Boardman, OR.

Regular construction waste (drywall, cement, wood, metal, glass, etc.) generated during demolition activities was transported offsite as inert construction debris. As foundations were removed, subsurface water and sewer piping and electrical lines/conduits were removed and/or cut and capped near the parcel boundaries.

The above-ground propane tank in the southern portion of the Site and the several catch basins at the Site were also removed.



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Because Stantec was not onsite for these activities, the preceding summary is based on information provided by AEC. If needed, additional information for these activities is available from AEC.



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## 4.0 UST REMOVALS AND COMPLIANCE SOIL SAMPLING, REMEDIAL SOIL EXCAVATION, EXCAVATION DEWATERING/TREATMENT, CONFIRMATION SOIL SAMPLING, AND BACKFILLING/SITE RESTORATION

### 4.1 UST REMOVAL ACTIVITIES

Following building demolition, dispenser canopy removal, and removal of some of the pavement, AEC continued Site work with near-surface soil excavation to expose the three USTs for subsequent removal. As previously noted, the three USTs consisted of the following: the 3-compartment, steel 20,000-gallon UST (the only recently-active UST) and the two previously abandoned-in-place steel USTs.

Mr. David Walker, AEC Foreman, is certified through the International Code Council (ICC) for UST Decommissioning. A copy of Mr. Walker's ICC Certification is included in **Appendix F**. Mr. Paul Janney, Stantec Geologist, performed the UST Site Assessment activities. Mr. Janney is certified through the ICC as a UST Site Assessor. A copy of Mr. Janney's certification is also included in **Appendix F**.

Prior to UST removals, AEC submitted the 30-Day Notice to Ecology (**Appendix B**).

The 3-compartment, steel 20,000-gallon UST and its vent lines were located in the south portion of the Site and the two previously abandoned-in-place USTs were located close to the former convenience store building. The canopied dispenser area (formerly located in the western portion of the Site) contained two pumps, dispensing both gasoline and diesel fuels. Product piping ran from the south portion of the Site northerly to the dispenser area.

Prior to removal of the USTs, the following activities were completed at the Site:

- The OneCall/Northwest Utility Notification Center and a private utility locator had previously been contacted (for the prior test pits) to locate and mark underground utilities/pipelines.
- Electrical service to the dispenser islands and the 20,000-gallon UST had already been de-activated during the prior demolition work.
- The 3 compartments of the 20,000-gallon UST were triple-rinsed, and pumped free of rinsate water.
- The 20,000-gallon UST was inerted by a certified marine chemist and inspected for removal.

#### Continued Pavement Removal, Initial Soil Excavation, and Soil Screening

Pavement continued to be removed in the UST and dispenser areas. Initial soil excavation to expose the tops of the USTs began on August 1, 2023. Stantec was onsite to field screen the soils for the potential presence of petroleum hydrocarbon impacts using a portable PID and observing the soil for staining. Field



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impacts were noted in near-surface soil and in some locations, directly beneath pavement. Impacted soils were temporarily stockpiled onsite, sampled, and subsequently transported offsite.

### Ongoing UST-Related Soil Excavation, UST Removals, and Compliance Soil Sampling

Soil excavation continued and the sequence of UST removals was as follows:

- The 10,000-gallon, previously abandoned-in-place, steel UST (originally thought to be a 6,000-gallon tank) was the first tank to be exposed for removal. Identified by Stantec as UST1, sidewall samples were collected on August 3, 2023 as soil around the tank was excavated. CDF used to previously abandon the tank began to be removed from the inside of the tank on August 3, 2023. Following removal of all CDF, UST1 was removed on August 4, 2023, with additional compliance soil samples collected that same day.
- The 3-compartment, recently-active, steel 20,000-gallon UST was the next tank to be exposed for removal. Identified by Stantec as UST2, it was exposed and an initial piping soil sample was collected on August 8, 2023. Additional soil excavation and sidewall samples were collected on August 9, 2023, with UST removal and final base confirmation soil samples collected on August 10 and 11, 2023.
- The 2,000-gallon, previously abandoned-in-place, steel UST was the third and final tank to be exposed for removal. Identified by Stantec as UST3, it was also exposed on August 8, 2023, removed on August 9, 2023 (after its internal CDF had been removed), and with compliance sidewall and base soil samples collected on both days.

Field screening of excavated soil (described in **Section 4.3**) was ongoing during UST removals that continued through August 10, 2023. Again, field impacts were noted and, similar to the initial excavated soils, these UST-related field-impacted soils were added to the impacted soil stockpile. Sampling of the soil stockpile continued during this timeframe.

According to *Section 4.2.3* of Ecology's Guidance document, UST-related soil samples are generally collected where field instruments indicate contamination exists, or where contamination is most likely to occur: the lowest point of the interface between the backfill material and native soil. Soil samples were collected from each of the excavation sidewalls, beneath the USTs, beneath the dispensers, and along the fuel product lines and vent lines.

In this case, there was no lateral vent line piping run for the 3-compartment, steel 20,000-gallon UST: the vent lines from each compartment were immediately adjacent to the UST within the UST backfill material and ran vertically up a vent line support frame/stand. Vent lines for the two abandoned-in-place USTs had been previously removed.

A total of 19 compliance soil samples were collected between August 3 and 10, 2023: 18 assessment samples and one duplicate. Samples were collected from the sidewalls ("SW") and base/floor ("FL") of the UST basins, dispenser pumps, and product lines. These 19 soil samples were collected, handled, and analyzed as described in **Section 4.3**.



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As shown in **Tables 1A and 1B**, 13 of the 18 assessment compliance samples revealed impacted soil with petroleum hydrocarbons above MTCA Method A CULs. The five (5) soil samples that did not show impacts were sidewall samples from the UST3 excavation (the previously abandoned-in-place 2,000-gallon steel UST); however, the UST3 excavation base sample did reveal impacts above MTCA Method A CULs.

Because subsequent remedial soil excavation was conducted and these impacted soils were removed, a Site Plan showing the locations of the UST compliance soil samples is not provided. Locations of the former USTs are shown on **Figure 2**.

Ecology's *Permanent Closure Notice for USTs* and Site Check/Site Assessment Checklist for USTs were completed, copies of which are provided in **Appendix F**. Photographs of the soil excavation and UST removals are included in **Appendix G**.

Offsite transport and waste manifests/disposal documentation for the removed USTs and impacted soil are provided in **Appendix H**. Impacted soil was transported to and disposed at Headquarters Landfill located at 3434 South Silver Lake Road, Castle Rock, WA 98611 (the landfill is owned by Cowlitz County and operated by the County's Public Works Department). The removed USTs were transported to and disposed at Pay More Recycle and Salvage, LLC located at 1813 Westport Road, Aberdeen, WA 98520.

### 4.2 REMEDIAL SOIL EXCAVATION AND CONFIRMATION SOIL SAMPLING

The extent of the excavation is depicted on **Figure 3** and shows the excavation limits coinciding with the property limits. The CAP prescribed that the excavation would not extend beyond the property limits. All the property's subsurface soils were excavated to between 12 and 15 feet in depth, except for remaining soils along the property lines adjacent to Wilson Avenue and North Montesano Street. These remaining (non-excavated) perimeter soils extend into the property approximately 15 feet and were sloped to the bottom of the excavation at a 2:1 angle<sup>1</sup>. A porous filter fabric (Marafi 140N) was placed between the soils left in place (adjacent to Wilson Ave and North Montesano Street) and the clean backfill placed on top. The purpose of this filter fabric is to provide demarcation between native and fill materials during potential future excavation.

Approximately 3,755 tons of impacted soil were removed during UST decommissioning with remedial soil excavation occurring concurrently, continuing through August 29, 2023, and with the final confirmation soil samples collected on August 28, 2023. Throughout this time, Stantec was onsite performing soil screening, collecting confirmation soil samples from the base areas of the excavation, assisting with excavation dewatering activities (see **Section 4.4**), and conducting perimeter air monitoring during excavation and impacted soil loading.

As impacted soil was generated, it was added to the impacted soil stockpile. Routine stockpile soil sampling was conducted in accordance with Ecology *Guidance Publication 21-09-050*. Periodic loading of impacted soil from the stockpile into truck-trailers for offsite transport and disposal occurred.

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<sup>1</sup> 2 feet horizontal for every 1 foot vertical



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Excavation base/floor soil samples were collected at depths ranging from 12 to 15 feet bgs. As noted in the beginning of this section, the CAP prescribed the maximum excavation depth of 15 feet.

### Confirmation Soil Sampling from the Excavation and Sample Nomenclature

As excavation progressed with total excavation depths and lateral limits being reached at locations across the Hungry Whale parcel, confirmation soil samples were collected. For ease of sample tracking and to provide unique sample identification numbers per Section 1.8 of the project SAP/QAPP, Stantec created a temporary, lettered and numbered sample grid across the excavation: A1 through F5 (**Figure 3**). Soil sampling nomenclature also included sample depth and sample location within the excavation: “SW” for sidewall and “FL” for floor/base. Sidewall samples was assigned an additional identifier as 1 through 4 for which sidewall was sampled: 1 = west; 2 = north; 3 = east; and 4 = south. For example, Sample A3-SW1-8’ was a west sidewall sample collected at a depth of 8 feet bgs in grid A3. Sample date, time, and sampler name were also recorded.

At the completion of remedial soil excavation and removal, a total of 51 confirmation soil samples had been collected: 47 assessment samples and four (4) duplicates. Sample locations are shown on **Figure 3**. Soil screening, sample collection, and sample handling were conducted in accordance with Section 1.7, Section 1.8, and Table 1 of the project SAP/QAPP and as described in **Section 4.3**. Soil samples were analyzed for the constituents listed in Section 1.4 of the project SAP/QAPP and as described in **Section 4.3**.

### Stockpile Soil Sampling

Routine stockpile soil sampling was performed by Stantec. Per Ecology *Guidance Publication 21-09-050*, a total of 16 stockpile samples were collected, handled, and analyzed as described in **Section 4.3**.

### Perimeter Air Monitoring

On field days of the highest volume of impacted soil excavation and/or loading, Stantec conducted perimeter air monitoring using a PID. PID readings ranged from 0.0 to 2.2 parts per million except for an one-time instantaneous 20 ppm reading on the south (downwind) end of the property while loading trucks on August 9, 2023.

### Impacted Soil Off-Site Transportation and Disposal

Approximately 7,203 tons of impacted soil were excavated, transported offsite, and properly disposed. Soil disposal was coordinated by AEC and all soil was transported to Cowlitz County’s Headquarters Landfill located at 3434 South Silver Lake Road, Castle Rock, WA 98611. The last load of impacted soil was transported offsite on August 29, 2023. Soil disposal documentation is provided in **Appendix H**.

## 4.3 FIELD SCREENING, SOIL SAMPLING, AND ANALYSIS

### Field Screening Methods

Field screening consisted of visual observations of potential hydrocarbon impacts and headspace analysis for volatile organic compound vapors using a MiniRae PID. A sample of the soil matrix was placed in a



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re-sealable plastic bag and allowed to equilibrate for approximately 10 minutes. The tip of the PID probe was used to pierce the plastic and then extended into the headspace above the soil surface. The highest vapor reading obtained during the next 60 seconds was then recorded. Prior to use, the PID was calibrated to a known concentration of isobutylene, in accordance with the manufacturer's specifications.

### 4.3.1 Soil Sampling and Analytical Methods

As noted in **Section 4.1**, nineteen (19) UST-related compliance soil samples were collected and as noted in **Section 4.2**, fifty-one (51) post-remedial-excavation confirmation soil samples were collected.

Soil samples submitted for laboratory analysis were collected per Section 1.4 of the project's SAP/QAPP and in accordance with EPA Sampling Method 5035A using a syringe-type sampler to obtain approximately 10 grams of soil at the sample location. The samples were then placed directly into pre-weighed, methanol preserved, 40-milliliter vials (supplied by the analytical laboratory). Additional soil was collected by hand and placed directly into a clean 4-ounce glass jar. A clean, disposable glove was used for each sample.

Care was taken to obtain representative soil samples and to place the soils quickly and directly into the sample container to minimize loss of volatile constituents. Each jar was filled to minimize headspace and sealed with a Teflon™-lined screw cap. Each sample container was then labeled, placed in Ziplock bags, and stored on ice in coolers for transport to PACE Analytical (a WA-certified laboratory in Mt. Juliet, TN). Trip blank (TB) samples were prepared, labeled, placed in the coolers, and accompanied the samples to the laboratory. Chain-of-custody protocols were followed.

Due to safety concerns, soil samples were collected from the center of the excavator bucket to avoid entering the UST and remedial excavations. Reasonable care was taken not to touch the sides of the bucket or to include surface soils in the sample.

The UST-related compliance samples (and the single duplicate sample) were analyzed for the following:

- TPH-G by Ecology method NWTPH-Gx;
- TPH-D and TPH-O by Ecology method NWTPH-Dx;
- BTEX by EPA Test Method 8260D; and
- Total Lead by EPA Test Method 6010D.

One UST-related soil sample (UST1-Disp2-7') was additionally analyzed for Volatile Petroleum Hydrocarbon/Extractable Petroleum Hydrocarbon (VPH/EPH) using Ecology method VPHWA and "TPH by Method EPH", and for cPAHs using EPA Test Method 8270E-SIM.

All of the remedial excavation confirmation samples, the five duplicate samples, and stockpile soil samples were analyzed for:

- TPH-G by Ecology method NWTPH-Gx; and
- BTEX by EPA Test Method 8260D.

Several remedial confirmation samples were additionally analyzed for the noted constituents as follows:



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- Samples F5-SW3-12', B1-SW1-12', and A5-SW1-12' were analyzed for VPH/EPH.
- Samples B5-FL-15' and B1-SW1-12' were analyzed for Total Lead.
- Samples A1-FL-14' and A2-SW2-12' were analyzed for VPH/EPH, cPAHs, TPH-D, TPH-O, and Total Lead.

The trip blank (TB) samples were analyzed for BTEX. The 8/14/2023 and the 8/28/2023 TB samples were also analyzed for TPH-G.

### 4.3.2 Confirmation Soil Analytical Results

As shown in **Tables 1A and 1B**, post-remedial-excavation confirmation soil analytical results reveal that one or more samples from the following grids contain petroleum hydrocarbons above MTCA A Method A CULs: A4, B1, B3, B5, C1, C2, C3, C5, D2, D4, D5, E2, E3, E4, E5, F3, F4, and F5. Grids with impacted base soil samples are shown graphically in red on **Figure 3**. Similarly, grid borders with impacted sidewall samples are also graphically represented with red borders on **Figure 3**. Complete soil laboratory reports and chain-of-custody documentation are included in **Appendix I**.

## 4.4 EXCAVATION DEWATERING, TREATMENT, AND DISCHARGE

During remedial soil excavation, excavation dewatering, groundwater treatment, and discharge occurred. This work was conducted in accordance with the Ecology-approved dewatering plan and the City of Westport-approved discharge of treated water to the nearby surface swale. Tidewater Environmental Services (under contract to AEC) provide equipment, labor, and expendable supplies for this work.

As outlined in the dewatering plan, groundwater was extracted from the excavation using suction hoses attached to temporary above-ground portable trash pumps staged around the rim of the excavation. The pumps' discharge ports were connected to two Baker Tanks via temporary PVC piping. The Baker Tanks (21,000-gallon surge and settling tanks) contained the extracted groundwater prior to the water running through filters (to remove excessive sediment), then treated via activated carbon vessels.

Six (6) pre-discharge samples (DC-1 through DC-6) were collected per the permit with the field parameters of pH (unitless) and turbidity (measured in units of NTU). Sample DC-1 was analyzed for: TPH-G, TPH-D, TPH-O, BTEX, Naphthalene, VPH/EPH, and total lead using the previously-identified test methods. Samples DC-2 and DC-3 were analyzed for TPH-G and BTEX. Samples DC-4 and DC-5 were analyzed for TPH-G, TPH-D, TPH-O, and BTEX. Sample DC-6 was analyzed for TPH-G, TPH-D, TPH-O, BTEX, and cPAHs. A duplicate sample was collected for DC-6. Trip blanks were prepared and accompanied the discharge samples on each of the six sampling days, and were analyzed for TPH-G and BTEX.

As shown in **Tables 2A and 2B**, all discharge samples were in compliance with the permit requirements. Copies of the groundwater discharge laboratory reports are provided in **Appendix J**.

Approximately 85,000 to 90,000 gallons of shallow groundwater was extracted, properly treated, and discharged from the Site.



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## 4.5 EXCAVATION BACKFILLING AND SITE RESTORATION

Upon reaching target depths and following confirmation soil sampling, the excavation was backfilled with permeable ballast material as specified on Sheet 5 of 6 of the project's design drawings (Appendix A of the *EDR*). The permeable ballast was brought up to 8 inches below final grade. The upper 8 inches was backfilled with a gravel-sand mixture (as specified in the design drawings) and was compacted. This upper fill was compaction-tested and all tests passed the 95% compaction requirement. Copies of the compaction report and the specifications of the Marafi 140N used on the perimeter property slopes are provided in *Appendix K*.

## 4.6 SWPPP MONITORING AND COMPLIANCE

During UST removals, remedial soil excavation, and site restoration activities, Stantec inspected the SWPPP BMPs and instructed AEC to adjust BMPs as needed to remain in compliance with the SWPPP. No significant adjustments were needed and no major "track-out" from Site equipment was observed.



## 5.0 REMEDIATION SUMMARY, CONCLUSIONS, AND FUTURE GROUNDWATER MONITORING

Stantec observed the removal of three USTs, two fuel dispensers, and associated product piping; supervised the remedial impacted soil excavation; and oversaw backfilling activities at the Hungry Whale parcel between August 1 and September 1, 2023. The removed three USTs consisted of one recently-active 20,000-gallon steel UST and two previously abandoned-in-place steel USTs.

A summary of the work performed and the soil analytical results is provided below.

- Upon exposure and visual inspection prior to and following removal, the three USTs appeared to be in overall good condition and no apparent failures were observed.
- A total of 19 UST-related compliance soil samples and 51 post-excavation confirmation soil samples were collected at the Site.
- As shown in **Table 1A**, soil analytical results indicated that approximately two-thirds of the UST-related compliance samples contained fuel-related petroleum hydrocarbons above MTCA Method A CULs. These materials were removed; however, approximately half of the post-excavation confirmation soil samples (either base or sidewall samples) still contained fuel-related hydrocarbons above MTCA Method A CULs.
- As shown on **Figure 3**, approximately half of the excavation sampling grids revealed “clean” base soil samples and the remaining half (primarily in the southern portion of the Hungry Whale parcel) revealed impacted base samples.
- Approximately 7,203 tons of impacted soil and 85,000 to 90,000 gallons of impacted shallow groundwater were properly removed and disposed from the Site.
- Seven (7) groundwater monitoring wells were removed prior to or during remedial soil excavation activities; however, as noted below, replacement wells will be installed and ongoing groundwater monitoring and sampling will be conducted.

Stantec concludes that as much impacted soil as feasibly possible and in accordance with the limits of the excavation specified in the CAP were removed during these remedial activities.

Based on the Site’s subsurface conditions consisting of large fluctuation in groundwater levels and widespread contaminant dispersion, the chosen remedial approach (soil excavation and off-site disposal) was validated as the most effective remedial approach resulting in the greatest risk reduction and the most permanent solution. Subsurface conditions are not favorable to an in-situ remedial approach such as injection technologies (carbon trap and treat, chemical or bioremediation). The long term effectiveness of the remedial action will be evaluated by results of planned groundwater monitoring described in a separate, post-excavation Operations and Maintenance Plan (OMP).

The OMP was prepared as separate document and includes details for the replacement wells whose locations are shown on Figure 4 of this Cleanup Action Report. The OMP includes provisions for future



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confirmational groundwater monitoring and sampling to evaluate the long-term effectiveness of the remedial activities as required by WAC 173-340-410(1)(c).



References

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## UNDERGROUND STORAGE TANK SYSTEM REMOVAL AND CLEANUP ACTION REPORT – WESTPORT WASHINGTON

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# TABLES



**TABLE 1A  
SOIL ANALYTICAL RESULTS - TPH, BTEX, AND METALS**  
Hungry Whale Remediation  
1680 North Montesano St, Westport, WA 98595  
All results are in milligrams per kilogram (mg/kg)

| Sample Location   | Sample Identification | Date     | Depth (feet bgs) | PID (ppm) | Benzene               | Toluene              | Ethyl-benzene        | Total Xylenes        | TPH-G               | TPH-D                 | TPH-O             | Mercury | Arsenic | Barium | Cadmium | Chromium | Lead  | Selenium | Silver |
|---|-----------------------|----------|------------------|-----------|-----------------------|----------------------|----------------------|----------------------|---------------------|-----------------------|-------------------|---------|---------|--------|---------|----------|-------|----------|--------|
| <b>Exploratory Test Pit Subsurface Investigation, June 2023</b> |                       |          |                  |           |                       |                      |                      |                      |                     |                       |                   |         |         |        |         |          |       |          |        |
| TP-1  | TP-1-8                | 06/26/23 | 8                | 5200      | 1.32                  | 75.8                 | 86.2                 | 455                  | 2470                | 58.7                  | <4.22             | 0.0323  | 1.4     | 9.58   | 0.0919  | 14.1     | 1.25  | <0.969   | <0.161 |
| TP-1  | TP-1-11               | 06/26/23 | 11               | 357.4     | --                    | --                   | --                   | --                   | --                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-3  | TP-3-8                | 06/27/23 | 8                | 4580      | 0.327                 | 4.75                 | 203                  | 380                  | 6090                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-3  | DUP-01                | 06/27/23 | 8                | 4580      | 0.156                 | 2.19                 | 110                  | 399                  | 5920                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-4  | TP-4-3                | 06/27/23 | 3                | 51.7      | --                    | --                   | --                   | --                   | --                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-4  | TP-4-8.5              | 06/27/23 | 8.5              | 2180      | 0.029                 | 0.101                | 2.02                 | 4.28                 | 21.5                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-6  | TP-6-3                | 06/27/23 | 3                | 9999      | --                    | --                   | --                   | --                   | --                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-6  | TP-6-7.5              | 06/27/23 | 7.5              | 4567      | 17.1                  | 69.9                 | 165                  | 443                  | 5160                | 119                   | 4.19 <sup>J</sup> | 0.0241  | 1.4     | 3.66   | <0.0588 | 12.1     | 6.05  | <0.953   | <0.158 |
| TP-10   | TP-10-3               | 06/26/23 | 3                | 9999      | 1.35                  | 0.674                | 88.1                 | 458                  | 5340                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-10   | TP-10-7.5             | 06/26/23 | 7.5              | 9999      | 0.293                 | 1.72                 | 12.4                 | 89                   | 516                 | 19.4                  | <4.22             | 0.03    | 2.32    | 8.24   | 0.0692  | 18.1     | 1.72  | <0.967   | <0.161 |
| TP-11   | TP-11-5.5             | 06/26/23 | 5.5              | 3963      | --                    | --                   | --                   | --                   | --                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-11   | TP-11-11              | 06/26/23 | 11               | 4309      | 0.705                 | 31.8                 | 74.4                 | 418                  | 4520                | 122                   | 8.43              | 0.0256  | 1.88    | 8.75   | 0.0997  | 17.5     | 4.02  | <0.995   | <0.165 |
| TP-12   | TP-12-11.5            | 06/26/23 | 11.5             | 55.7      | 0.00182               | 0.0168               | 0.0132               | 0.136                | 3.91                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-13   | TP-13-8               | 06/26/23 | 8                | 3613      | U                     | 0.172                | 21.2                 | 136                  | 1520                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-14   | TP-14-3.5             | 06/26/23 | 3.5              | 43.5      | 0.299                 | 0.0639               | 0.0957               | 0.479                | 99                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-14   | TP-14-9               | 06/26/23 | 9                | 460.3     | --                    | --                   | --                   | --                   | --                  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| TP-14   | TP-14-13.5            | 06/26/23 | 13.5             | 128       | 0.014                 | 0.021                | 0.0223               | 0.0757               | 2.24                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| <b>UST Removal Samples</b>                                      |                       |          |                  |           |                       |                      |                      |                      |                     |                       |                   |         |         |        |         |          |       |          |        |
| UST1  | UST1-Disp1-7          | 08/07/23 | 7                | 2700      | 1.79                  | 16.8                 | 148                  | 598                  | 2010 <sup>B</sup>   | 44.9 <sup>J3,J5</sup> | <4.15             | --      | --      | --     | --      | --       | 4.47  | --       | --     |
| UST1  | UST1-Disp2-7          | 08/07/23 | 7                | 3000      | 0.542                 | 24.7                 | 33.3                 | 201                  | 2630                | 150                   | <3.83             | --      | --      | --     | --      | --       | 0.884 | --       | --     |
| UST1  | UST1-SW1-5            | 08/03/23 | 5                | --        | 1.13                  | 0.0846               | 21.7                 | 0.806                | 1790                | 127                   | 24.5              | --      | --      | --     | --      | --       | 7.85  | --       | --     |
| UST1  | UST1-SW2-5            | 08/03/23 | 5                | --        | 1.79                  | 0.098 <sup>B</sup>   | 57.7                 | 6.83                 | 4450                | 130                   | <21.2             | --      | --      | --     | --      | --       | 8.81  | --       | --     |
| UST1  | UST1-SW3-5            | 08/03/23 | 5                | --        | 1.05                  | 6.45                 | 34.2                 | 187                  | 6130                | 552                   | <89.1             | --      | --      | --     | --      | --       | 7.6   | --       | --     |
| UST1  | UST1-SW4-5            | 08/03/23 | 5                | --        | 89.3                  | 308                  | 258                  | 1700                 | 31300               | 1120                  | <203              | --      | --      | --     | --      | --       | 6.24  | --       | --     |
| UST1  | UST1-FL-10            | 08/03/23 | 10               | --        | 57.3                  | 205                  | 154                  | 1010                 | 39300               | 1650                  | <185              | --      | --      | --     | --      | --       | 4.94  | --       | --     |
| UST2  | UST2-Piping-3         | 08/08/23 | 3                | 500       | 1.87                  | 8.88 <sup>B</sup>    | 26.3                 | 227                  | 3800                | 97.3                  | 7.6 <sup>J</sup>  | --      | --      | --     | --      | --       | 3.22  | --       | --     |
| UST2  | DUP-01                | 08/08/23 | 3                | 500       | 0.695                 | 2.28                 | 6.69                 | 71.9                 | 1990                | 160                   | 20.1              | --      | --      | --     | --      | --       | 3.99  | --       | --     |
| UST2  | UST2-SW4-8            | 08/09/23 | 8                | 2867      | 14.4                  | 109                  | 101                  | 1010                 | 7600                | 625                   | 18.7 <sup>J</sup> | --      | --      | --     | --      | --       | 4.65  | --       | --     |
| UST2  | UST2-SW1-8            | 08/09/23 | 8                | 2517      | 26.5                  | 107                  | 271                  | 2510                 | 15900               | 1630                  | <41.3             | --      | --      | --     | --      | --       | 6.32  | --       | --     |
| UST2  | UST2-SW2-7            | 08/10/23 | 7                | 93.7      | 0.268                 | 0.262                | 1.56                 | 4.26                 | 126                 | 27.5                  | 23.5              | --      | --      | --     | --      | --       | 8.63  | --       | --     |
| UST2  | UST2-SW3-7            | 08/10/23 | 7                | 2953      | 7.5                   | 130                  | 134                  | 1330                 | 9160                | 1340                  | 36.7              | --      | --      | --     | --      | --       | 5.69  | --       | --     |
| UST2  | UST2-FL-11            | 08/10/23 | 11               | 3001      | 17.4                  | 149                  | 154                  | 1280                 | 7930                | 923                   | <20               | --      | --      | --     | --      | --       | 4.67  | --       | --     |
| UST3  | UST3-SW3-3            | 08/08/23 | 3                | 150       | 0.00539               | 0.0106               | 0.0676               | 0.0238               | 23.3                | 31.1                  | <4.15             | --      | --      | --     | --      | --       | 10.5  | --       | --     |
| UST3  | UST3-SW2-3            | 08/08/23 | 3                | 40        | <0.00128              | 0.00425 <sup>J</sup> | <0.00321             | 0.0121               | 2.67 <sup>B,J</sup> | 4.65                  | 17.4              | --      | --      | --     | --      | --       | 11.9  | --       | --     |
| UST3  | UST3-SW4-4            | 08/08/23 | 4                | 30        | 0.00102 <sup>J</sup>  | 0.0126               | 0.00913              | 0.0723               | 3.4 <sup>B</sup>    | <1.37                 | <3.43             | --      | --      | --     | --      | --       | 6.43  | --       | --     |
| UST3  | UST3-SW1-5            | 08/08/23 | 5                | 50        | 0.00262               | 0.00627 <sup>J</sup> | <0.00408             | 0.0117               | 5.86 <sup>B</sup>   | 25.6                  | 66.1              | --      | --      | --     | --      | --       | 8.42  | --       | --     |
| UST3  | UST3-FL-8             | 08/09/23 | 8                | 1300      | 0.236                 | 0.102                | 31.1                 | 256                  | 2880                | 233                   | <20.8             | --      | --      | --     | --      | --       | 17.2  | --       | --     |
| <b>Remedial Excavation Samples</b>                              |                       |          |                  |           |                       |                      |                      |                      |                     |                       |                   |         |         |        |         |          |       |          |        |
| A1  | A1-SW1-4              | 08/10/23 | 4                | 10.7      | 0.00349               | 0.0111               | 0.0124               | 0.0627               | 2.99                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A1  | A1-FL-14              | 08/14/23 | 14               | 3.1       | 0.00418               | 0.0256               | 0.0182               | 0.0757               | <3.92               | 1.68                  | 4.21              | --      | --      | --     | --      | --       | --    | --       | --     |
| A2  | A2-FL-14              | 08/14/23 | 14               | 4.3       | <0.00155              | 0.00323 <sup>J</sup> | <0.00388             | 0.00671              | 2.04 <sup>B,J</sup> | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A2  | A2-SW1-12             | 08/14/23 | 12               | 1773      | 0.00226               | 0.105                | 0.532                | 2.8                  | 73                  | 6.42                  | <3.88             | --      | --      | --     | --      | --       | 1.73  | --       | --     |
| A2  | A2-FL-14-ADD          | 08/14/23 | 14               | 16.3      | <0.00158              | 0.0041 <sup>J</sup>  | 0.00181 <sup>J</sup> | 0.00525 <sup>J</sup> | 3.49 <sup>B,J</sup> | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A2  | DUP-02                | 08/14/23 | 14               | 16.3      | 0.0013 <sup>J</sup>   | 0.0161               | 0.0594               | 0.297                | 4.93 <sup>B</sup>   | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A3  | A3-SW1-6              | 08/10/23 | 6                | 60.8      | 0.0235                | 0.199                | 3.92                 | 13.3                 | 195                 | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A3  | A3-SW1-13             | 08/14/23 | 13               | 448       | 0.000791 <sup>J</sup> | 0.0101               | 0.0465               | 0.244                | 4.59 <sup>B</sup>   | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A3  | A3-FL-12              | 08/14/23 | 12               | 19.9      | 0.00411               | 0.0111               | 0.00775              | 0.0159               | 2.4 <sup>B,J</sup>  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A4  | A4-SW1-8              | 08/10/23 | 8                | 2744      | 0.166                 | 15.4                 | 28.3                 | 144                  | 1360                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A4  | A4-SW4-12             | 08/14/23 | 12               | 2399      | 1.52                  | 5.88                 | 19.1                 | 131                  | 1280                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| A4  | A4-FL-12              | 08/08/23 | 12               | 19.9      | 0.00411               | 0.0111               | 0.00775              | 0.0159               | 2.4 <sup>B,J</sup>  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| B1  | B1-FL-15              | 08/14/23 | 15               | 155.3     | 0.187                 | 0.172                | 1.03                 | 4.95                 | 142                 | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| B1  | B1-SW2-12             | 08/14/23 | 12               | 1169      | 0.137                 | 0.0196               | 1.94                 | 4.46                 | 405                 | --                    | --                | --      | --      | --     | --      | --       | 1.43  | --       | --     |
| B2  | B2-FL-13              | 08/14/23 | 13               | 18.8      | 0.0208                | 0.145                | 0.218                | 1.4                  | 24.5                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| B2  | B2-FL-15-ADD          | 08/14/23 | 15               | 278.9     | 0.0374                | 0.33                 | 0.803                | 2.91                 | 72.7                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| B3  | B3-FL-15              | 08/14/23 | 15               | 758.3     | 0.113                 | 0.425                | 1.13                 | 3.33                 | 104                 | --                    | --                | --      | --      | --     | --      | --       | 1.93  | --       | --     |
| B4  | B4-FL-15              | 08/14/23 | 15               | 7.3       | 0.00079 <sup>J</sup>  | 0.007 <sup>J</sup>   | 0.00274 <sup>J</sup> | 0.0104               | 2.2 <sup>B,J</sup>  | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| B5  | B5-SW4-12             | 08/14/23 | 12               | 446.8     | 1.71                  | 0.145                | 1.01                 | 27.3                 | 728                 | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C1  | C1-FL-15              | 08/14/23 | 15               | 115.3     | 0.132                 | 0.0205               | 0.0833               | 0.306                | 7.39                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C1  | C1-SW2-12             | 08/14/23 | 12               | 55.6      | 0.127                 | 0.0217               | 0.798                | 2.29                 | 33.6                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C2  | C2-FL-15              | 08/14/23 | 15               | 1430      | 0.0382                | 0.436                | 2.59                 | 19.3                 | 223                 | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C2  | C2-FL-15-ADD          | 08/14/23 | 15               | 157.6     | 0.0144                | 0.00762 <sup>J</sup> | 0.0277               | 0.0275               | 8.62                | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C3  | C3-FL-15              | 08/14/23 | 15               | 15.4      | 0.11                  | 0.00396 <sup>J</sup> | 0.00290 <sup>J</sup> | 0.00868 <sup>J</sup> | 5.81 <sup>J</sup>   | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C4  | C4-FL-15              | 08/14/23 | 15               | 6.3       | <0.00165              | 0.00231 <sup>J</sup> | <0.00413             | 0.00416 <sup>J</sup> | 5.58 <sup>B</sup>   | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |
| C5  | C5-SW4-8              | 08/10/23 | 8                | 3010      | 28.5                  | 183                  | 123                  | 1110                 | 14800               | --                    | --                | --      | --      | --     | --      | --       | --    | --       | --     |

**TABLE 1A**  
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 Hungry Whale Remediation  
 1680 North Montesano St, Westport, WA 98595  
 All results are in milligrams per kilogram (mg/kg)

| Sample Location   | Sample Identification | Date     | Depth (feet bgs) | PID (ppm) | Benzene              | Toluene              | Ethyl-benzene        | Total Xylenes        | TPH-G             | TPH-D               | TPH-O | Mercury | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver |
|---|-----------------------|----------|------------------|-----------|----------------------|----------------------|----------------------|----------------------|-------------------|---------------------|-------|---------|---------|--------|---------|----------|------|----------|--------|
| C5  | C5-SW4-6              | 08/15/23 | 6                | 2466      | 5.8                  | 13.2                 | 113                  | 1160                 | 11100             | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D1  | D1-SW2-12             | 08/15/23 | 12               | 78.6      | <0.00159             | 0.00412 <sup>J</sup> | 0.00437              | 0.0257               | 4.77              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D2  | D2-FL-15              | 08/14/23 | 15               | 4035      | 0.107                | 0.403                | 1.94                 | 9.35                 | 64.5              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D3  | D3-FL-15              | 08/14/23 | 15               | 248.9     | 0.0277               | 0.603                | 0.541                | 3.18                 | 10.4 <sup>B</sup> | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D3  | DUP-03                | 08/14/23 | 15               | 248.9     | 0.0214               | 0.577                | 0.506                | 2.97                 | 10.8 <sup>B</sup> | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D4  | D4-FL-15              | 08/28/23 | 15               | 1723      | 5.9                  | 34.5                 | 41                   | 296                  | 5200              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D5  | D5-SW4-10             | 08/15/23 | 10               | 839       | 0.0839               | 0.482                | 0.696                | 5.77                 | 140               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| D5  | DUP-04                | 08/15/23 | 10               | 839       | 0.109                | 0.615                | 0.97                 | 7.06                 | 155               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E2  | E2-FL-15              | 08/28/23 | 15               | 20.8      | 0.00385              | 0.0961               | 0.03                 | 0.708                | 6.26              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E2  | E2-SW2-13             | 08/28/23 | 13               | 88.8      | 0.156                | 0.44                 | 0.336                | 3.36                 | 18.9              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E2  | DUP-06                | 08/28/23 | 13               | 88.8      | 0.13                 | 0.277                | 0.254                | 2.84                 | 17.8              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E3  | E3-FL-15              | 08/28/23 | 15               | 2087      | 3.49                 | 64.9                 | 54.8                 | 333                  | 7590              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E4  | E4-FL-15              | 08/28/23 | 15               | 1415      | 0.779                | 4.59                 | 6.92                 | 39.5                 | 3420              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E5  | E5-SW4-8              | 08/10/23 | 8                | 3132      | 87.1                 | 850                  | 278                  | 2080                 | 22800             | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| E5  | E5-SW4-6-ADD          | 08/10/23 | 6                | 2799      | 0.454                | 0.706                | 25.2                 | 31.7                 | 5480              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F2  | F2-FL-15              | 08/28/23 | 15               | 5.1       | 0.00111 <sup>J</sup> | 0.00473 <sup>J</sup> | 0.00209 <sup>J</sup> | 0.0134               | 2.7 <sup>J</sup>  | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F2  | F2-SW2-15             | 08/28/23 | 15               | 12.2      | 0.00742              | 0.0664               | 0.0111               | 0.287                | 5.22              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F2  | F2-SW3-12             | 08/28/23 | 12               | 2.4       | 0.00139 <sup>J</sup> | 0.00256 <sup>J</sup> | 0.00287 <sup>J</sup> | 0.00732 <sup>J</sup> | 3.49 <sup>J</sup> | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F3  | F3-FL-15              | 08/28/23 | 15               | 100.8     | 0.715                | 0.0127               | 0.206                | 0.034                | 16.9 <sup>B</sup> | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F3  | F3-SW3-12             | 08/28/23 | 12               | 48.6      | 0.645                | 0.0137 <sup>J</sup>  | 0.0498               | 0.552                | 59.7              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F4  | F4-FL-15              | 08/28/23 | 15               | 451.7     | 0.781                | 2.83                 | 1.64                 | 11.4                 | 110               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F4  | F4-SW3-12             | 08/28/23 | 12               | 142.5     | 1.18                 | 0.0155               | 0.189                | 0.0783               | 21 <sup>B</sup>   | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F5  | F5-SW4-15             | 08/15/23 | 15               | 2799      | 0.454                | 0.706                | 25.2                 | 31.7                 | 5480              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F5  | F5-SW3-12             | 08/15/23 | 12               | 216.8     | 0.892                | 0.0195               | 0.855                | 0.322                | 13.4 <sup>B</sup> | --                  | --    | --      | --      | --     | --      | --       | 1.26 | --       | --     |
| F5  | F5-SW4-13             | 08/15/23 | 13               | 267.5     | 1.02                 | 0.0344               | 0.627                | 0.855                | 22.6              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| F5  | DUP-05                | 08/15/23 | 13               | 267.5     | 1.26                 | 0.0322               | 0.698                | 0.704                | 28.1              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| <b>Stockpile Samples</b>  |                       |          |                  |           |                      |                      |                      |                      |                   |                     |       |         |         |        |         |          |      |          |        |
| SP  | SP-SC-1               | 08/03/23 | --               | --        | 0.00121              | 0.00483              | 0.00163              | 0.0193               | 3.89              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-1               | 08/03/23 | --               | --        | 0.244                | 0.956                | 5.21                 | 25.5                 | 958               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-2               | 08/03/23 | --               | --        | 0.0713               | 0.117                | 2.94                 | 9.28                 | 268               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-3               | 08/09/23 | --               | 1374      | 0.0392               | 1.64                 | 5.09                 | 27.5                 | 648               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-4               | 08/10/23 | --               | --        | 0.057                | 0.182                | 0.24                 | 1.87                 | 110               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-5               | 08/11/23 | --               | 532       | 0.447                | 7.22                 | 44.6                 | 295                  | 4240              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-6               | 08/11/23 | --               | 829       | 0.0681               | 2.92                 | 10.9                 | 127                  | 961               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-7               | 08/14/23 | --               | 1327      | 0.0318               | 0.312                | 2.41                 | 29.7                 | 1330              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-8               | 08/14/23 | --               | 1865      | 0.278                | 2.64                 | 7.97                 | 53.7                 | 1240              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-9               | 08/14/23 | --               | 1865      | 0.0363               | 1.42                 | 5.34                 | 31.3                 | 398               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-10              | 08/15/23 | --               | 1067      | 0.00575              | 0.0277               | 0.041                | 11.3                 | 250               | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-11              | 08/16/23 | --               | 1930      | 0.163                | 5.51                 | 13.8                 | 125                  | 1730              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-12              | 08/16/23 | --               | 1411      | 0.185                | 8.21                 | 14                   | 130                  | 1160              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-13              | 08/28/23 | --               | 12        | 0.00565              | 0.0176               | 0.0149               | 0.105                | 18.3              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-14              | 08/28/23 | --               | 26.1      | 0.00488              | 0.0524               | 0.0667               | 1.17                 | 5.44              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| SP  | SP-SI-15              | 08/28/23 | --               | 54.4      | 0.00348              | 0.0225               | 0.0466               | 0.435                | 21.7              | --                  | --    | --      | --      | --     | --      | --       | --   | --       | --     |
| <b>MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses</b> |                       |          |                  |           | --                   | 0.03                 | 7                    | 6                    | 9                 | 30/100 <sup>1</sup> | 2,000 | 2,000   | 2       | 20     | --      | 2        | 19   | 250      | --     |

**Abbreviations and Notes**

Field sample only - no sample sent for laboratory analysis.

TPH-G = total petroleum hydrocarbons as gasoline

TPH-D = total petroleum hydrocarbons as diesel

TPH-O = total petroleum hydrocarbons as oil/residual range organics

MTCA = Model Toxics Control Act

**Bold** = value exceeds the MTCA Method A Cleanup Level

bgs = below ground surface

DUP = Duplicate

PID = Photoionization Detector

ppm = Parts Per Million

mg/kg = milligrams per kilogram

UST = Underground Storage Tank

FL = Floor Sample

SW = Sidewall sample; each sidewall sample is further identified with a number (1 through 4): 1 = west wall; 2 = north wall; 3 = east wall; and 4 = west wall.

SP = Stockpile Sample

SI = Suspected Impacted

SC = Suspected Clean

< = less than the specified analytical laboratory practical quantitation limit

-- = not analyzed or, in the case of the CULs, not established.

**TABLE 1A**  
**SOIL ANALYTICAL RESULTS - TPH, BTEX, AND METALS**  
 Hungry Whale Remediation  
 1680 North Montesano St, Westport, WA 98595  
 All results are in milligrams per kilogram (mg/kg)

| Sample Location | Sample Identification | Date | Depth (feet bgs) | PID (ppm) | Benzene | Toluene | Ethylbenzene | Total Xylenes | TPH-G | TPH-D | TPH-O | Mercury | Arsenic | Barium | Cadmium | Chromium | Lead | Selenium | Silver |
|-----------------|-----------------------|------|------------------|-----------|---------|---------|--------------|---------------|-------|-------|-------|---------|---------|--------|---------|----------|------|----------|--------|
|-----------------|-----------------------|------|------------------|-----------|---------|---------|--------------|---------------|-------|-------|-------|---------|---------|--------|---------|----------|------|----------|--------|

J = The identification of the analyte is acceptable; the reported value is an estimate.

J3 = The associated batch QC was outside the established quality control range for precision.

J5 = The sample matrix interfered with the ability to make any accurate determination; spike value is high.

B = The same analyte is found in the associated blank.

ADD = Additional sample taken within grid.

<sup>1</sup> = Gasoline mixtures without benzene and where the total of ethylbenzene, toluene, & xylenes is less than 1% of the mixture have a cleanup level of 100 mg/kg; for all other mixtures, CUL is 30 mg/kg.

**TABLE 1B**  
**SOIL ANALYTICAL RESULTS - Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)**  
 Hungry Whale Remediation  
 1680 North Montesano St, Westport, WA 98595  
 All results in milligrams per kilograms (mg/kg)

| Soil Sample ID                     | Sample Date | Benzo (a) anthracene | Benzo (a) pyrene | Benzo (b) fluoranthene | Benzo (k) fluoranthene | Chrysene   | Dibenz (a,h) anthracene | Indeno (1,2,3-cd) pyrene | Total cPAHs | Acenaphthene | Acenaphthylene | Anthracene | Benzo (g,h,i) perylene | Fluoranthene | Fluorene   | Phenanthrene | Pyrene   | 2-Chloronaphthalene | Naphthalene | 1-Methyl Naphthalene | 2-Methyl Naphthalene |
|------------------------------------|-------------|----------------------|------------------|------------------------|------------------------|------------|-------------------------|--------------------------|-------------|--------------|----------------|------------|------------------------|--------------|------------|--------------|----------|---------------------|-------------|----------------------|----------------------|
| <b>Remedial Excavation Samples</b> |             |                      |                  |                        |                        |            |                         |                          |             |              |                |            |                        |              |            |              |          |                     |             |                      |                      |
| UST1-Disp2-7'                      | 08/07/23    | 0.00429(J)           | 0.00238(J)       | <0.00176               | <0.00247               | 0.00359(J) | <0.00198                | <0.00208                 | 0.003807    | 0.0486       | <0.00249       | <0.00265   | 0.00322(J)             | 0.0129       | 0.0490     | 0.0640       | 0.0168   | <0.00536            | <b>22</b>   | <b>13.9</b>          | <b>30.5</b>          |
| A1-FL-14'                          | 08/14/23    | <0.00218             | <0.00226         | <0.00193               | <0.00272               | <0.00293   | <0.00217                | <0.00229                 | 0.003418    | <0.00264     | <0.00273       | <0.00290   | <0.00224               | <0.00287     | <0.00259   | <0.00292     | <0.00253 | <0.00588            | 0.0351      | 0.0272               | 0.0533               |
| A2-SW2-12'                         | 08/14/23    | <0.00201             | <0.00208         | <0.00178               | <0.00250               | <0.00270   | <0.00200                | <0.00211                 | 0.003147    | 0.00263(J)   | <0.00251       | <0.00268   | <0.00206               | <0.00264     | 0.00325(J) | 0.00547(J)   | <0.00233 | <0.00542            | 0.67        | 0.562                | 1.23                 |
| <b>MTCA Method A CULs</b>          |             | --                   | --               | --                     | --                     | --         | --                      | --                       | <b>0.03</b> | --           | --             | --         | --                     | --           | --         | --           | --       | --                  | --          | <b>5</b>             |                      |

Abbreviations and Notes:

- < = Less than the specified analytical laboratory practical quantitation limit
- = Not analyzed or, in the case of the CULs, not established

MTCA = Model Toxics Control Act

CULs = Cleanup Levels

**Bold** = Value exceeds the MTCA Method A Cleanup Level

J = The identification of the analyte is acceptable: the reported value is an estimate.

TEQ cPAH calcs are provided in Table 3.

**TABLE 2A**  
**GROUNDWATER DISCHARGE ANALYTICAL RESULTS - TPH, BTEX, and Naphthalene**

Hungry Whale Remediation  
 1680 North Montesano St, Westport, WA 98595  
 All results in micrograms per liter (µg/L)

| Sample Identification                | Date     | Benzene  | Toluene      | Ethyl-benzene | Total Xylenes | TPH-G                        | TPH-D      | TPH-O      | Total Lead | Naphthalene (by 8260D) | Naphthalene (by 8270E-SIM) |
|--------------------------------------|----------|----------|--------------|---------------|---------------|------------------------------|------------|------------|------------|------------------------|----------------------------|
| <b>Groundwater Discharge Samples</b> |          |          |              |               |               |                              |            |            |            |                        |                            |
| DC-1                                 | 08/14/23 | 0.092    | 0.445        | 0.326         | 4.02          | <100                         | <200       | <250       | <2.99      | 0.353 J                | 0.106 J                    |
| DC-2                                 | 08/17/23 | <1       | <1           | <1            | <3            | 42.9 B J                     | --         | --         | --         | --                     | --                         |
| DC-3                                 | 08/18/23 | <1       | <1           | <1            | <3            | <100                         | --         | --         | --         | --                     | --                         |
| DC-4                                 | 08/22/23 | <1       | <1           | <1            | <3            | <100                         | 70.2 J     | <250       | --         | --                     | <0.250                     |
| DC-5                                 | 08/22/23 | <1       | <1           | <1            | <3            | <100                         | 76.8 J     | <250       | --         | --                     | <0.250                     |
| DC-6                                 | 08/29/23 | <1       | <1           | <1            | <3            | <100                         | <200       | <250       | --         | --                     | <0.250                     |
| DC-6 (DC-DUP)                        | 08/29/23 | <1       | <1           | <1            | <3            | <100                         | <200       | <250       | --         | --                     | <0.250                     |
| <b>MTC A Method A CULs</b>           |          | <b>5</b> | <b>1,000</b> | <b>700</b>    | <b>1,000</b>  | <b>800/1,000<sup>a</sup></b> | <b>500</b> | <b>500</b> |            | <b>160</b>             | <b>160</b>                 |

**TABLE 2B - cPAHs**  
**GROUNDWATER DISCHARGE ANALYTICAL RESULTS - Polycyclic Aromatic Hydrocarbons (PAHs)**  
 Hungry Whale Remediation  
 1680 North Montesano St, Westport, WA 98595  
 All results in micrograms per liter (µg/L)\*\*

| Sample ID                  | Sample Date | benzo(a) anthracene | benzo(a) pyrene | benzo(b) fluoranthene | benzo(k) fluoranthene | Chrysene | bbenz(a,h) anthracene | indeno(1,2,3-cd) pyrene | Total cPAHs | Acenaphthene | Acenaphthylene | Anthracene | benzo(g,h,i) perylene | fluoranthene | fluorene | fluoranthrene | Pyrene  | 2-Chloronaphthalene | Naphthalene | 1-Methyl Naphthalene | 2-Methyl Naphthalene |
|----------------------------|-------------|---------------------|-----------------|-----------------------|-----------------------|----------|-----------------------|-------------------------|-------------|--------------|----------------|------------|-----------------------|--------------|----------|---------------|---------|---------------------|-------------|----------------------|----------------------|
| DC-6 (DUP)                 | 08/29/23    | <0.0203             | <0.0184         | <0.0168(J4)           | <0.0202               | <0.0179  | <0.0160               | <0.0158                 | 0.013745    | <0.0190      | <0.0171        | <0.0190    | <0.0184               | <0.0270      | <0.0169  | <0.0180       | <0.0169 | <0.0682             | <0.0917     | <0.0687              | <0.0674              |
|                            | 08/29/23    | <0.0203             | <0.0184         | <0.0168(J4)           | <0.0202               | <0.0179  | <0.0160               | <0.0158                 | 0.013745    | <0.0190      | <0.0171        | <0.0190    | <0.0184               | <0.0270      | <0.0169  | <0.0180       | <0.0169 | <0.0682             | <0.0917     | <0.0687              | <0.0674              |
| <b>MTC A Method A CULs</b> |             | --                  | --              | --                    | --                    | --       | --                    | --                      | <b>0.1</b>  | --           | --             | --         | --                    | --           | --       | --            | --      |                     |             |                      | <b>160</b>           |

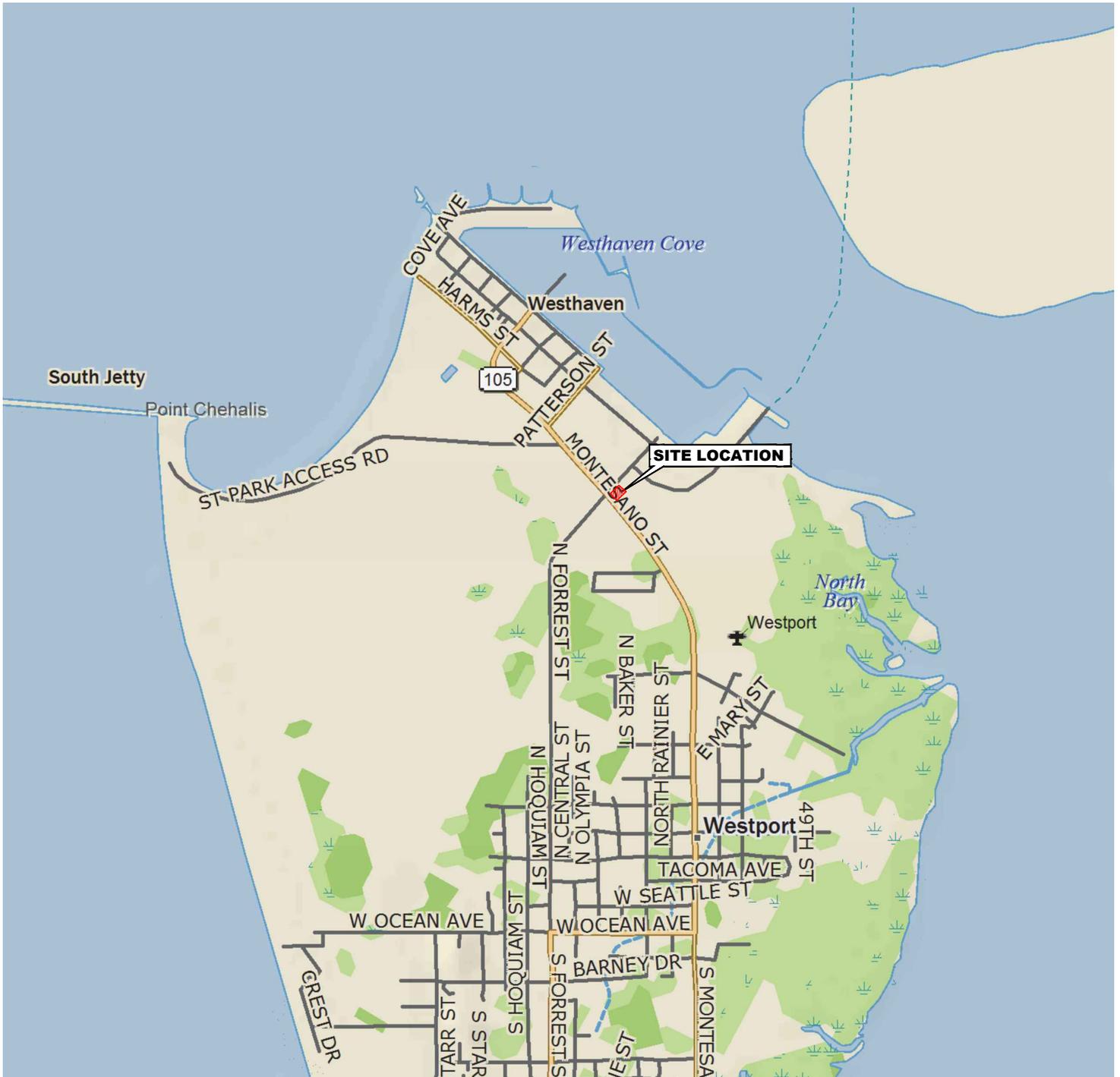
\*\*\* Total cPAH calculations are reported in accordance with Toxicity Equivalency Factors, where not detected is expected to be 50% of the reporting limit

Abbreviations and Notes:

- cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons
- < = Less than the specified analytical laboratory practical quantitation limit
- MTC A = Model Toxics Control Act
- CULs = Cleanup Levels
- = Not analyzed or, in the case of the CULs, not established
- J4 = The associated batch QC was outside the established quality control range for accuracy.
- TEQ cPAH calcs are provided in Table 4.

# FIGURES



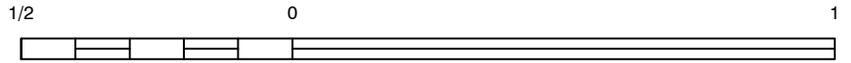


North

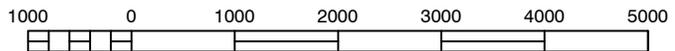


WASHINGTON

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, WESTPORT, WASHINGTON



SCALE (MILES)



SCALE (FEET)



11130 NE 33RD PLACE, SUITE 200  
 BELLEVUE, WASHINGTON  
 PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR:  
 THE HUNGRY WHALE  
 1680 NORTH MONTESANO STREET  
 WESPORT, WASHINGTON

**SITE LOCATION MAP**

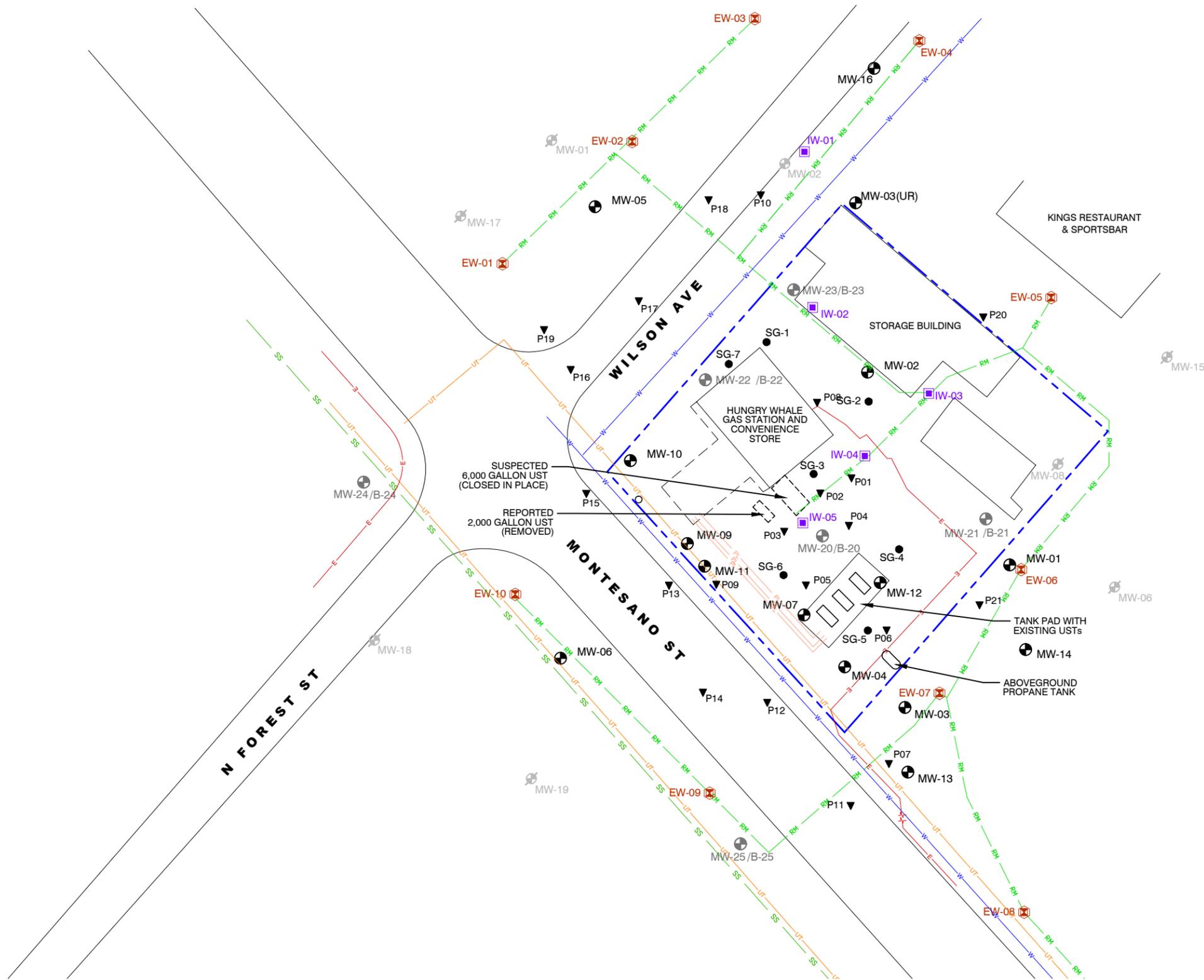
FIGURE:

**1**

|                          |                  |                   |                    |                    |
|--------------------------|------------------|-------------------|--------------------|--------------------|
| JOB NUMBER:<br>185703328 | DRAWN BY:<br>MDR | CHECKED BY:<br>DH | APPROVED BY:<br>-- | DATE:<br>SEPT 2016 |
|--------------------------|------------------|-------------------|--------------------|--------------------|

**LEGEND**

- MW-1 MONITORING WELL (pre-2007)
- MW-1 MONITORING WELL/BORING (2007)
- EW-01 EXTRACTION WELL (OPERATED 7/1997-10/1999)
- IW-01 INJECTION WELL (OPERATED 7/1997-10/1999)
- SG-1 SOIL GAS POINT (2011)
- P01 SOIL BORING (DIRECT PUSH, 2007)
- DESTROYED/ABANDONED WELL
- POWER POLE
- LEASEHOLD BOUNDARY
- ELECTRIC LINE
- SANITARY SEWER LINE
- UNDERGROUND TELEPHONE LINE
- WATER LINE
- REMEDIATION SYSTEM PIPING
- STATION FUEL/PRODUCT LINE



SUSPECTED 6,000 GALLON UST (CLOSED IN PLACE)  
 REPORTED 2,000 GALLON UST (REMOVED)

11130 NE 33RD PLACE, SUITE 200  
 BELLEVUE, WASHINGTON  
 PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR:  
**THE HUNGRY WHALE**  
 1680 NORTH MONTESANO STREET  
 WESTPORT, WASHINGTON

JOB NUMBER:  
 185703328

DRAWN BY:  
 MDR

**PRE-REMEDATION SITE PLAN**

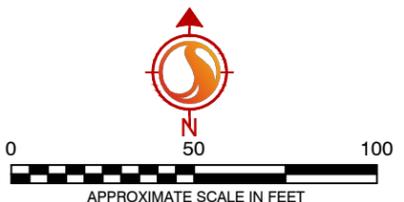
CHECKED BY:  
 CS

APPROVED BY:

FIGURE:  
**2**

DATE:  
 JAN 2017

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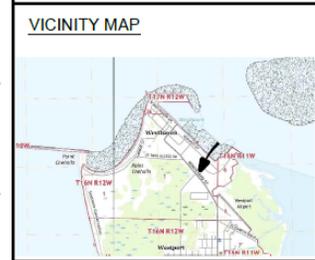


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**PROPERTY INFORMATION**  
 SITE ADDRESS: 1680 NORTH MONTESANO STREET  
 PORTION OF PORT-OWNED APN NO. 616120142001,  
 PROPERTY IS SITUATED IN THE WESTERN-MOST  
 CORNER OF APN NO. 616120142991  
 TOWNSHIP, RANGE, SECTION: T21N R05E S07  
 LEGAL DESCRIPTION OF PROJECT SITE:  
 PROPERTY IS LOCATED IN THE NORTHEAST  
 QUARTER OF THE THE SOUTHEAST QUARTER OF  
 SECTION 1, TOWNSHIP 16 NORTH, RANGE 12  
 WEST.

**CONTACT INFORMATION**  
 OWNER'S REPRESENTATIVE:  
 RANDY LEWIS  
 DIRECTOR OF HEALTH, SAFETY AND  
 ENVIRONMENT  
 PORT OF GRAYS HARBOR  
 111 SOUTH WOODING STREET  
 ABERDEEN WA 98520  
 RLEWIS@PORTGRAYS.ORG  
 (360) 533-9513  
 ENGINEER:  
 MARC SAUZE  
 STANTEC CONSULTING SERVICES  
 1687 114TH AVENUE SE, SUITE 100  
 BELLEVUE, WA 98004  
 marc.sauze@stantec.com  
 (425) 684-2323



**PREPARED BY:**  

 1687 114TH AVENUE SE, SUITE 100  
 BELLEVUE, WASHINGTON 98004-6684  
 PHONE: 425-289-7300 FAX: 425-886-1190

**FOR:**  

 THE HUNGRY WHALE  
 1680 NORTH MONTESANO STREET  
 WESTPORT, WASHINGTON

**TITLE:**  
**REMEDIAL EXCAVATION**

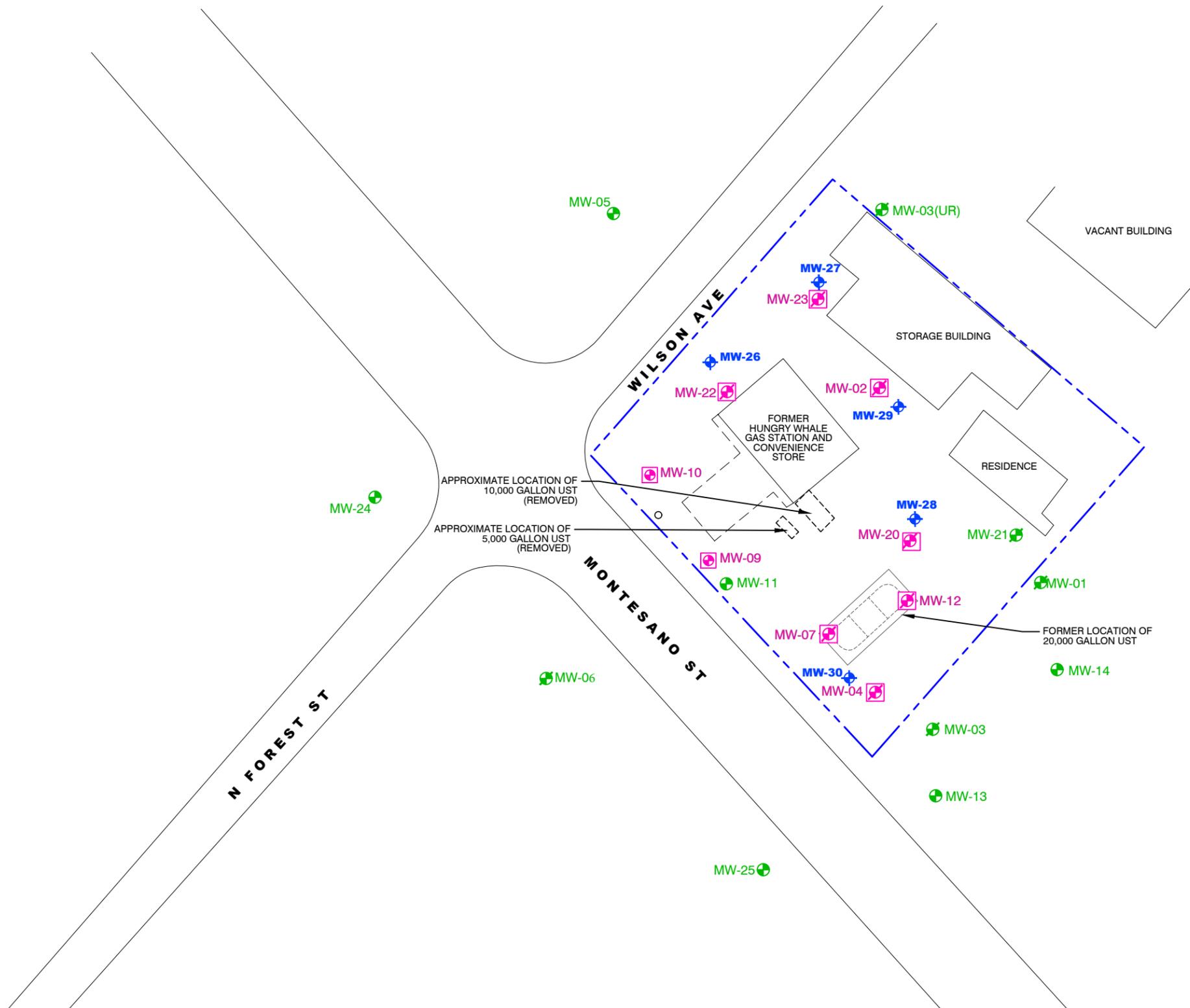
|                        |               |                     |                          |
|------------------------|---------------|---------------------|--------------------------|
| <b>DRAWN BY:</b>       | ZA            | <b>DESIGNED BY:</b> |                          |
| <b>CHECKED BY:</b>     | CS            | <b>APPROVED BY:</b> | MS                       |
| <b>PROJECT NUMBER:</b> | 185751446     | <b>SCALE:</b>       | PROVIDED AT TOP OF SHEET |
| <b>DATE:</b>           | NOVEMBER 2023 | <b>FILE PATH:</b>   | V:\185751\Site Plans     |
| <b>SHEET:</b>          | <b>3</b>      |                     |                          |

**LEGEND**

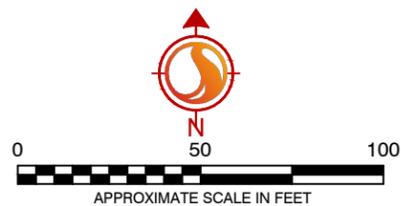
|  |   |
|--|---|
|  | APPROXIMATE PROPERTY BOUNDARY   |
|  | MONITORING WELL   |
|  | WOODEN FENCE<br>MONITORING WELL ABANDONED BEFORE<br>REMEDIAL EXCAVATION |
|  | CONFIRMATION SAMPLE LOCATION  |
|  | APPROXIMATE REMEDIAL EXCAVATION<br>AREA                                 |
|  | CONFIRMATION SAMPLE CONTAINS<br>CONSTITUENTS ABOVE MTCA LEVEL A CULS    |
|  | CONFIRMATION SAMPLE DID NOT EXCEED<br>MTCA LEVEL A CULS                 |

**LEGEND**

- MW-05  EXISTING MONITORING WELL  
GROUNDWATER RESULTS < MTCA A LEVELS
- MW-26  PROPOSED MONITORING WELL
-  EXISTING MONITORING WELL  
GROUNDWATER RESULTS > MTCA A LEVELS
-  DESTROYED MONITORING WELL  
GROUNDWATER RESULTS < MTCA A LEVELS
-  DESTROYED MONITORING WELL  
GROUNDWATER RESULTS > MTCA A LEVELS



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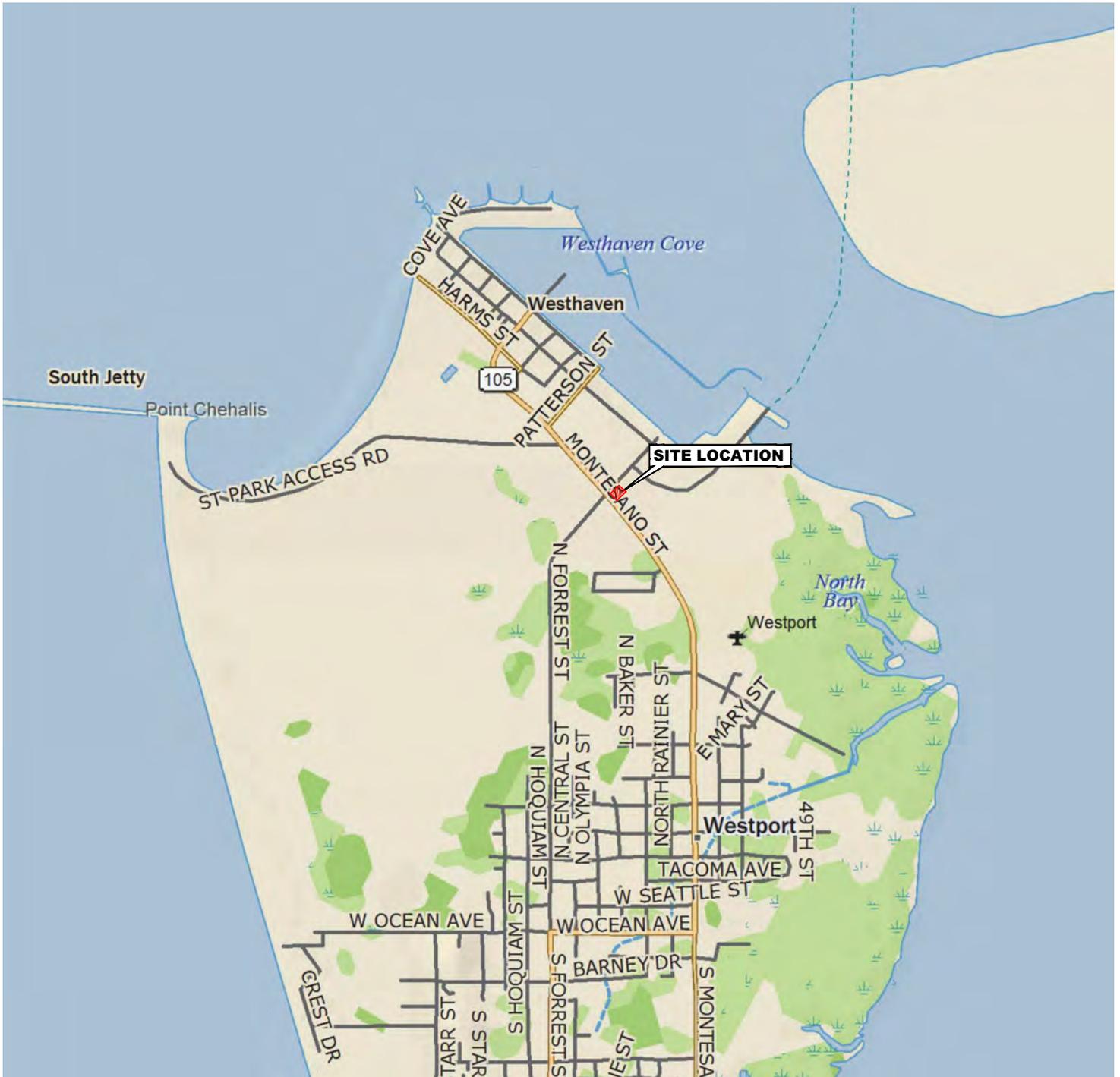


|   |  |                      |  |                    |                     |
|---|--|----------------------|--|--------------------|---------------------|
| <br>1687 114 AVE SE SUITE 100<br>BELLEVUE, WASHINGTON 98004<br>PHONE: (425) 869-9448 FAX: (425) 869-1190 | FOR:<br><b>THE HUNGRY WHALE</b><br>1680 NORTH MONTESANO STREET<br>WESTPORT, WASHINGTON |                      | <b>SITE PLAN WITH<br/>                 FORMER, CURRENT AND PROPOSED<br/>                 MONITORING WELL LOCATIONS</b> |                    | FIGURE:<br><b>4</b> |
|   | JOB NUMBER:<br>185703328   | DRAWN BY:<br>MDR/JBL | CHECKED BY:<br>MS  | APPROVED BY:<br>MS | DATE:<br>09/13/23   |

# APPENDIX A

## Pre-Remedial (pre-2023) Soil and Groundwater Data



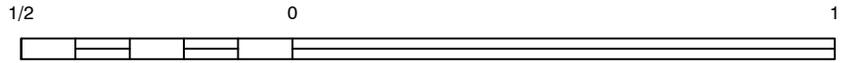


North

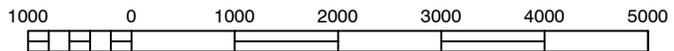


WASHINGTON

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, WESTPORT, WASHINGTON



SCALE (MILES)



SCALE (FEET)



11130 NE 33RD PLACE, SUITE 200  
BELLEVUE, WASHINGTON  
PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR:  
THE HUNGRY WHALE  
1680 NORTH MONTESANO STREET  
WESTPORT, WASHINGTON

JOB NUMBER:  
185703328

DRAWN BY:  
MDR

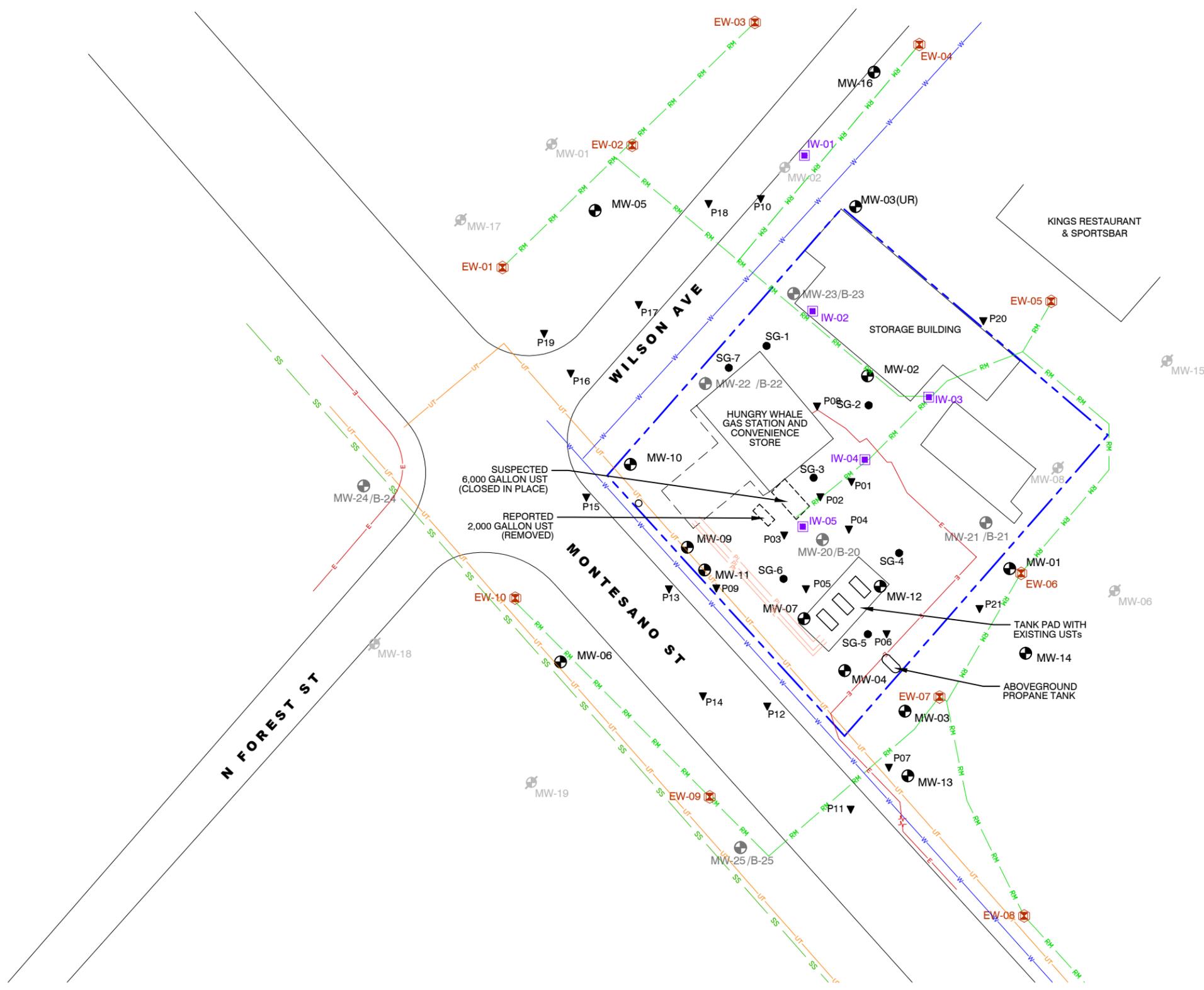
CHECKED BY:  
DH

APPROVED BY:  
--

FIGURE:  
**1**  
DATE:  
SEPT 2016

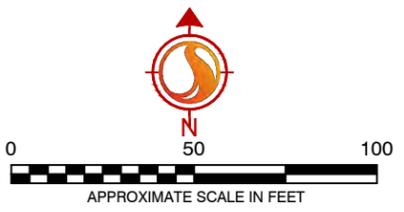
**SITE LOCATION MAP**

- LEGEND**
- MW-1 MONITORING WELL (pre-2007)
  - MW-1 MONITORING WELL/BORING (2007)
  - EW-01 EXTRACTION WELL (OPERATED 7/1997-10/1999)
  - IW-01 INJECTION WELL (OPERATED 7/1997-10/1999)
  - SG-1 SOIL GAS POINT (2011)
  - P01 SOIL BORING (DIRECT PUSH, 2007)
  - DESTROYED/ABANDONED WELL
  - POWER POLE
  - LEASEHOLD BOUNDARY
  - ELECTRIC LINE
  - SANITARY SEWER LINE
  - UNDERGROUND TELEPHONE LINE
  - WATER LINE
  - REMEDIATION SYSTEM PIPING
  - STATION FUEL/PRODUCT LINE

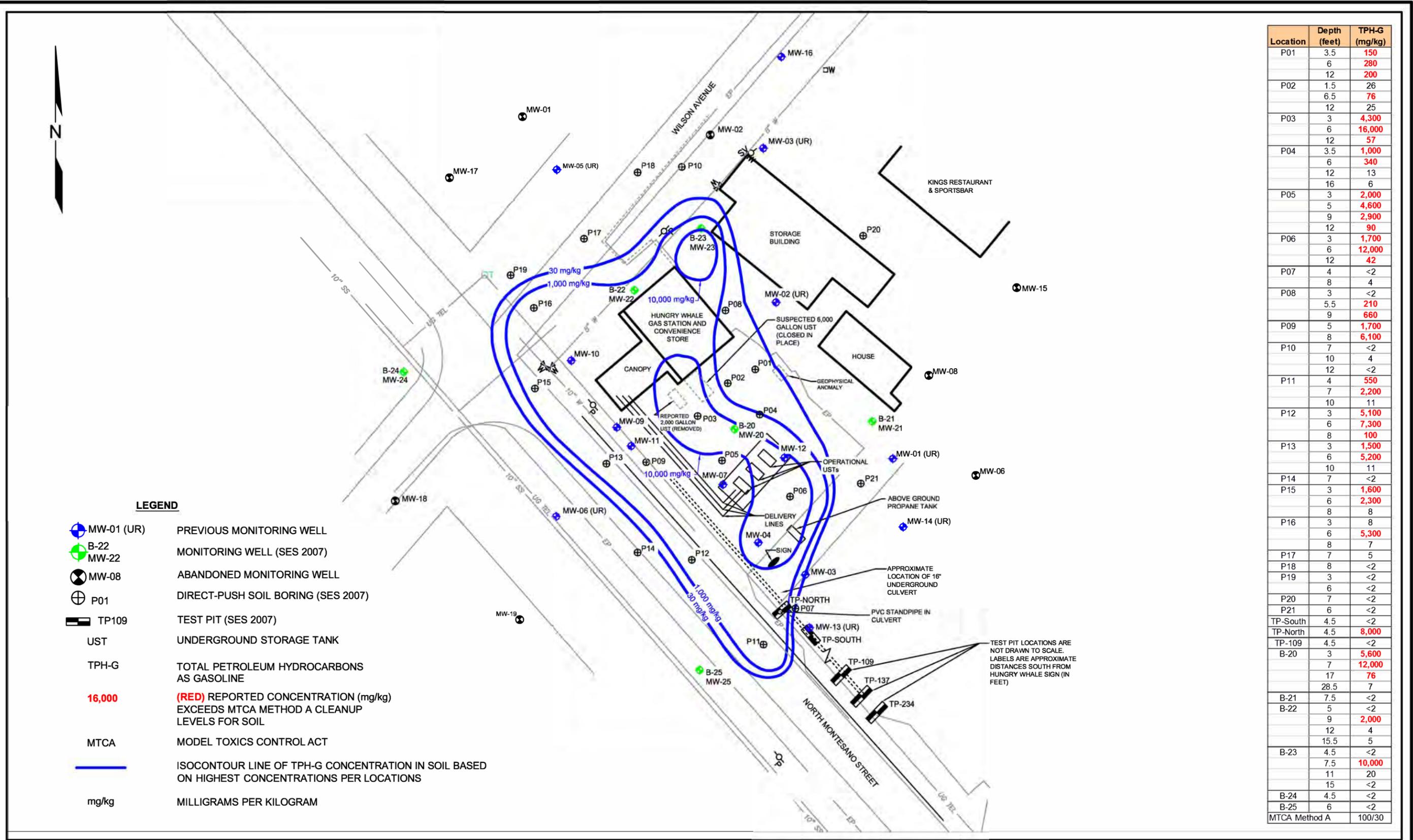


SUSPECTED 6,000 GALLON UST (CLOSED IN PLACE)  
 REPORTED 2,000 GALLON UST (REMOVED)

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|  |  |                  |                  |  |                     |
|--|--|------------------|------------------|--|---------------------|
| <p>11130 NE 33RD PLACE, SUITE 200<br/>         BELLEVUE, WASHINGTON<br/>         PHONE: (425) 869-9448 FAX: (425) 869-1190</p> | FOR:<br><b>THE HUNGRY WHALE</b><br>1680 NORTH MONTESANO STREET<br>WESTPORT, WASHINGTON |                  | <b>SITE PLAN</b> |  | FIGURE:<br><b>2</b> |
|  | JOB NUMBER:<br>185703328   | DRAWN BY:<br>MDR |                  |  |                     |

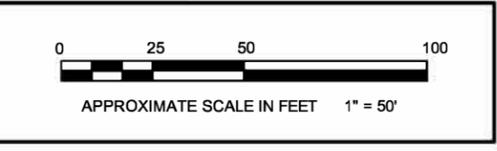
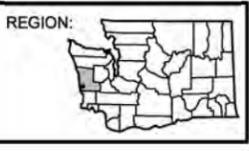


| Location      | Depth (feet) | TPH-G (mg/kg) |
|---------------|--------------|---------------|
| P01           | 3.5          | 150           |
|               | 6            | 280           |
|               | 12           | 200           |
| P02           | 1.5          | 26            |
|               | 6.5          | 76            |
|               | 12           | 25            |
| P03           | 3            | 4,300         |
|               | 6            | 16,000        |
|               | 12           | 57            |
| P04           | 3.5          | 1,000         |
|               | 6            | 340           |
|               | 12           | 13            |
|               | 16           | 6             |
| P05           | 3            | 2,000         |
|               | 5            | 4,600         |
|               | 9            | 2,900         |
|               | 12           | 90            |
| P06           | 3            | 1,700         |
|               | 6            | 12,000        |
|               | 12           | 42            |
| P07           | 4            | <2            |
|               | 8            | 4             |
| P08           | 3            | <2            |
|               | 5.5          | 210           |
|               | 9            | 660           |
| P09           | 5            | 1,700         |
|               | 8            | 6,100         |
| P10           | 7            | <2            |
|               | 10           | 4             |
|               | 12           | <2            |
| P11           | 4            | 550           |
|               | 7            | 2,200         |
|               | 10           | 11            |
| P12           | 3            | 5,100         |
|               | 6            | 7,300         |
|               | 8            | 100           |
| P13           | 3            | 1,500         |
|               | 6            | 5,200         |
|               | 10           | 11            |
| P14           | 7            | <2            |
| P15           | 3            | 1,600         |
|               | 6            | 2,300         |
|               | 8            | 8             |
| P16           | 3            | 8             |
|               | 6            | 5,300         |
|               | 8            | 7             |
| P17           | 7            | 5             |
| P18           | 8            | <2            |
| P19           | 3            | <2            |
|               | 6            | <2            |
| P20           | 7            | <2            |
| P21           | 6            | <2            |
| TP-South      | 4.5          | <2            |
| TP-North      | 4.5          | 8,000         |
| TP-109        | 4.5          | <2            |
| B-20          | 3            | 5,600         |
|               | 7            | 12,000        |
|               | 17           | 76            |
|               | 28.5         | 7             |
| B-21          | 7.5          | <2            |
| B-22          | 5            | <2            |
|               | 9            | 2,000         |
|               | 12           | 4             |
|               | 15.5         | 5             |
| B-23          | 4.5          | <2            |
|               | 7.5          | 10,000        |
|               | 11           | 20            |
|               | 15           | <2            |
| B-24          | 4.5          | <2            |
| B-25          | 6            | <2            |
| MTCA Method A |              | 100/30        |

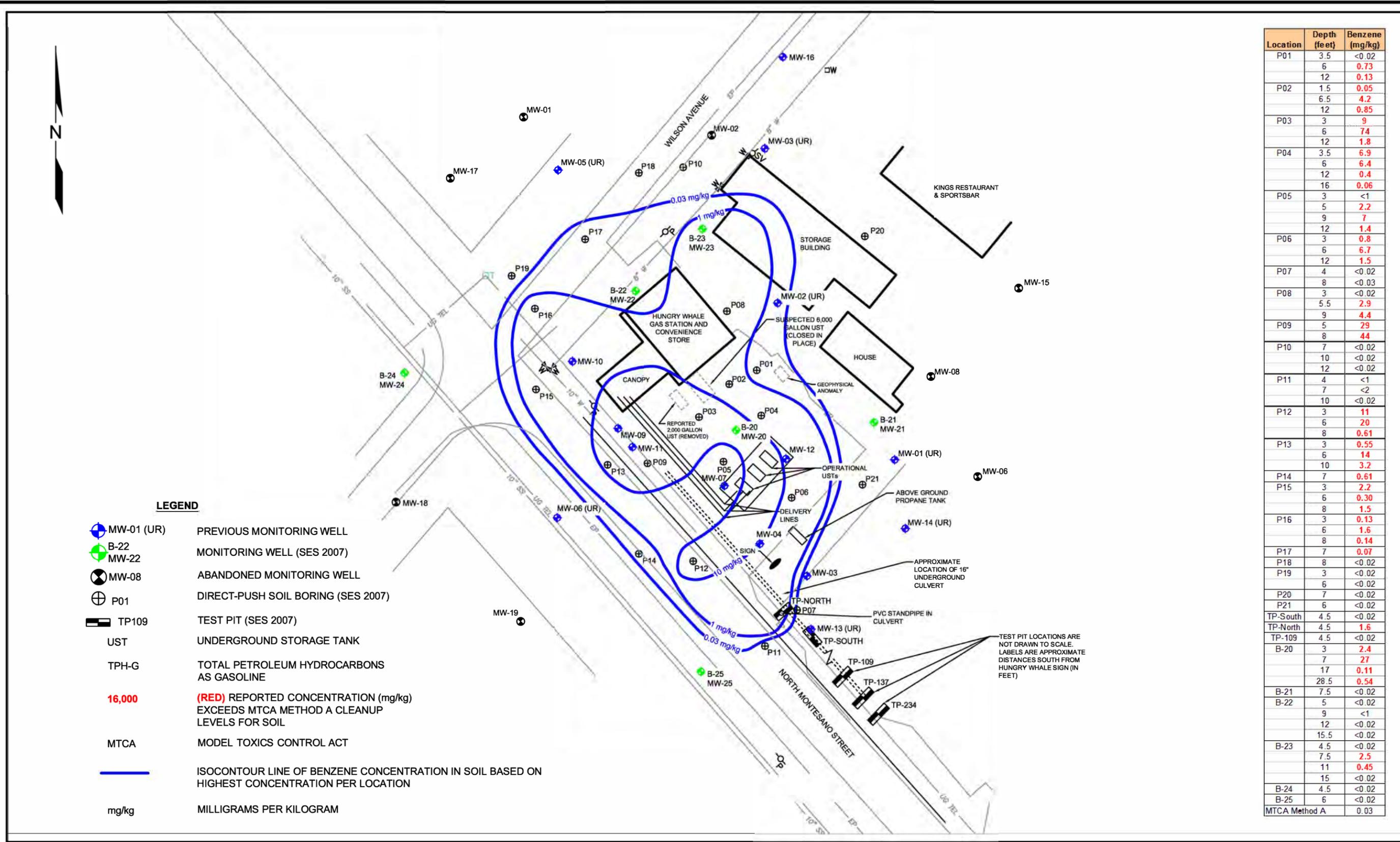


DATE: .....01/09/08  
 DRAWN BY: .....BLR  
 CHECKED BY: .....RKB  
 CAD FILE: .....0461-001-02 FIG10 SD TPHG

PROJECT NAME: .....THE HUNGRY WHALE  
 SES PROJECT NUMBER: .....0461-001-02  
 STREET ADDRESS: .....1680 NORTH MONTESANO STREET  
 CITY, STATE: .....WESTPORT, WASHINGTON



**FIGURE 3**  
 ISOCONCENTRATION MAP  
 FOR TPH-G IN SOIL

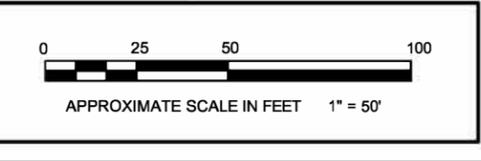
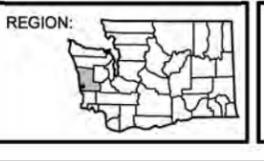


| Location      | Depth (feet) | Benzene (mg/kg) |
|---------------|--------------|-----------------|
| P01           | 3.5          | <0.02           |
|               | 6            | 0.73            |
|               | 12           | 0.13            |
| P02           | 1.5          | 0.05            |
|               | 6.5          | 4.2             |
|               | 12           | 0.85            |
| P03           | 3            | 9               |
|               | 6            | 74              |
|               | 12           | 1.8             |
| P04           | 3.5          | 6.9             |
|               | 6            | 6.4             |
|               | 12           | 0.4             |
| P05           | 16           | 0.06            |
|               | 3            | <1              |
|               | 5            | 2.2             |
| P06           | 9            | 7               |
|               | 12           | 1.4             |
|               | 3            | 0.8             |
| P07           | 6            | 6.7             |
|               | 12           | 1.5             |
|               | 4            | <0.02           |
| P08           | 8            | <0.03           |
|               | 3            | <0.02           |
|               | 5.5          | 2.9             |
| P09           | 9            | 4.4             |
|               | 5            | 29              |
|               | 8            | 44              |
| P10           | 7            | <0.02           |
|               | 10           | <0.02           |
|               | 12           | <0.02           |
| P11           | 4            | <1              |
|               | 7            | <2              |
|               | 10           | <0.02           |
| P12           | 3            | 11              |
|               | 6            | 20              |
|               | 8            | 0.61            |
| P13           | 3            | 0.55            |
|               | 6            | 14              |
|               | 10           | 3.2             |
| P14           | 7            | 0.61            |
|               | 3            | 2.2             |
|               | 6            | 0.30            |
| P15           | 8            | 1.5             |
|               | 3            | 0.13            |
|               | 6            | 1.6             |
| P16           | 8            | 0.14            |
|               | 7            | 0.07            |
|               | 8            | <0.02           |
| P17           | 8            | <0.02           |
|               | 3            | <0.02           |
|               | 6            | <0.02           |
| P18           | 7            | <0.02           |
|               | 6            | <0.02           |
|               | 6            | <0.02           |
| P19           | 4.5          | 1.6             |
|               | 4.5          | <0.02           |
|               | 4.5          | <0.02           |
| P20           | 4.5          | <0.02           |
|               | 4.5          | <0.02           |
|               | 4.5          | <0.02           |
| P21           | 4.5          | <0.02           |
|               | 4.5          | <0.02           |
|               | 4.5          | <0.02           |
| TP-South      | 3            | 2.4             |
|               | 7            | 27              |
|               | 17           | 0.11            |
| TP-North      | 28.5         | 0.54            |
|               | 7.5          | <0.02           |
|               | 5            | <0.02           |
| B-20          | 9            | <1              |
|               | 12           | <0.02           |
|               | 15.5         | <0.02           |
| B-21          | 4.5          | <0.02           |
|               | 7.5          | 2.5             |
|               | 11           | 0.45            |
| B-22          | 15           | <0.02           |
|               | 4.5          | <0.02           |
|               | 6            | <0.02           |
| B-23          | 6            | <0.02           |
|               | 6            | <0.02           |
|               | 6            | <0.02           |
| B-24          | 6            | <0.02           |
|               | 6            | <0.02           |
|               | 6            | <0.02           |
| B-25          | 6            | <0.02           |
|               | 6            | <0.02           |
|               | 6            | <0.02           |
| MTCA Method A |              | 0.03            |



DATE: .....01/09/08  
 DRAWN BY: .....BLR  
 CHECKED BY: .....RKB  
 CAD FILE: ..... 0461-001-02 FIG11 SD BENZ

PROJECT NAME: .....THE HUNGRY WHALE  
 SES PROJECT NUMBER:.....0461-001-02  
 STREET ADDRESS: .....1680 NORTH MONTESANO STREET  
 CITY, STATE:.....WESTPORT, WASHINGTON



**FIGURE 4**  
 ISOCONCENTRATION MAP  
 FOR BENZENE IN SOIL

**Table 1**  
**Summary of Soil Analytical Results**  
**The Hungry Whale**  
**1680 North Montesano Street, Westport, Washington**

| Sample ID                        | Date Sampled | Location | Depth (feet) | PID Headspace (ppm) | TPH-G <sup>1</sup> | Benzene <sup>2</sup> | Toluene <sup>2</sup>    | Ethylbenzene <sup>2</sup> | Total Xylenes <sup>2</sup> | Naphthalene <sup>2</sup> |
|----------------------------------|--------------|----------|--------------|---------------------|--------------------|----------------------|-------------------------|---------------------------|----------------------------|--------------------------|
| <b>Direct Push Investigation</b> |              |          |              |                     |                    |                      |                         |                           |                            |                          |
| P01-03.5                         | 04/26/07     | P01      | 3.5          | 118                 | <b>150</b>         | <0.02                | 0.03                    | 0.30                      | 1.9                        | --                       |
| P01-06                           | 04/26/07     | P01      | 6            | 216                 | <b>280</b>         | <b>0.73</b>          | 5.3                     | 6.9                       | <b>43</b>                  | <b>6.0</b>               |
| P01-12                           | 04/26/07     | P01      | 12           | 357                 | <b>200</b>         | <b>0.13</b>          | 0.36                    | 1.7                       | <b>9.3</b>                 | --                       |
| P02-01.5                         | 04/26/07     | P02      | 1.5          | 209                 | 26                 | <b>0.05</b>          | 0.13                    | 0.32                      | 1.8                        | --                       |
| P02-06.5                         | 04/26/07     | P02      | 6.5          | 1,660               | <b>76</b>          | <b>4.2</b>           | <b>13</b>               | <b>10</b>                 | <b>57</b>                  | <b>5.5</b>               |
| P02-12                           | 04/26/07     | P02      | 12           | 281                 | 25                 | <b>0.85</b>          | 3.2                     | 0.45                      | 2.7                        | --                       |
| P03-03                           | 04/26/07     | P03      | 3            | 4,001               | <b>4,300</b>       | <b>9.0</b>           | <b>140</b>              | <b>68</b>                 | <b>420</b>                 | --                       |
| P03-06                           | 04/26/07     | P03      | 6            | 4,484               | <b>16,000</b>      | <b>74</b>            | <b>580</b>              | <b>230</b>                | <b>1,380</b>               | <b>89</b>                |
| P03-12                           | 04/26/07     | P03      | 12           | --                  | <b>57</b>          | <b>1.8</b>           | 0.57                    | 0.92                      | 2.4                        | --                       |
| P04-03.5                         | 04/26/07     | P04      | 3.5          | >4,600              | <b>1,000</b>       | <b>6.9</b>           | <b>130</b>              | <b>88</b>                 | <b>570</b>                 | <b>49</b>                |
| P04-06                           | 04/26/07     | P04      | 6            | 766                 | <b>340</b>         | <b>6.4</b>           | <b>8.1</b>              | <b>11</b>                 | <b>60</b>                  | --                       |
| P04-12                           | 04/26/07     | P04      | 12           | 230                 | 13                 | <b>0.40</b>          | 0.07                    | 0.50                      | 2.0                        | --                       |
| P04-16                           | 04/26/07     | P04      | 16           | 136                 | 6                  | <b>0.06</b>          | 0.08                    | 0.12                      | 0.39                       | --                       |
| P05-03                           | 04/26/07     | P05      | 3            | 3,516               | <b>2,000</b>       | <1                   | <b>13</b>               | 3.5                       | <b>140</b>                 | --                       |
| P05-05                           | 04/26/07     | P05      | 5            | 3,055               | <b>4,600</b>       | <b>2.2</b>           | <b>26</b>               | <b>24</b>                 | <b>285</b>                 | <b>26</b>                |
| P05-09                           | 04/26/07     | P05      | 9            | 3,333               | <b>2,900</b>       | <b>7</b>             | <b>48</b>               | <b>23</b>                 | <b>190</b>                 | --                       |
| P05-12                           | 04/26/07     | P05      | 12           | 473                 | <b>90</b>          | <b>1.4</b>           | 0.58                    | 0.37                      | 1.2                        | --                       |
| P06-03                           | 04/26/07     | P06      | 3            | 3,479               | <b>1,700</b>       | <b>0.80</b>          | <b>21</b>               | <b>16</b>                 | <b>120</b>                 | --                       |
| P06-06                           | 04/26/07     | P06      | 6            | 3,046               | <b>12,000</b>      | <b>6.7</b>           | <b>220</b>              | <b>160</b>                | <b>1,270</b>               | <b>100</b>               |
| P06-12                           | 04/26/07     | P06      | 12           | 240                 | <b>42</b>          | <b>1.5</b>           | 4.4                     | 0.69                      | 4.3                        | --                       |
| P07-04                           | 04/26/07     | P07      | 4            | 8.1                 | <2                 | <0.02                | <0.02                   | <0.02                     | <0.06                      | --                       |
| P07-08                           | 04/26/07     | P07      | 8            | 35.9                | 4                  | <0.03                | <0.05                   | <0.05                     | <0.15                      | <0.05                    |
| P08-03                           | 04/26/07     | P08      | 3            | 4.8                 | <2                 | <0.02                | <0.02                   | <0.02                     | <0.06                      | --                       |
| P08-05.5                         | 04/26/07     | P08      | 5.5          | 26.8                | <b>210</b>         | <b>2.9</b>           | 3.2                     | 4.9                       | <b>25</b>                  | --                       |
| P08-09                           | 04/26/07     | P08      | 9            | 2,607               | <b>660</b>         | <b>4.4</b>           | <b>12</b>               | <b>18</b>                 | <b>102</b>                 | 4.6                      |
| P09-05                           | 04/26/07     | P09      | 5            | 2,732               | <b>1,700</b>       | <b>29</b>            | <b>260</b>              | <b>75</b>                 | <b>790</b>                 | <b>65</b>                |
| P09-08                           | 04/26/07     | P09      | 8            | 2,708               | <b>6,100</b>       | <b>44</b>            | <b>340<sup>ve</sup></b> | <b>100</b>                | <b>650</b>                 | --                       |

**Table 1**  
**Summary of Soil Analytical Results**  
**The Hungry Whale**  
**1680 North Montesano Street, Westport, Washington**

| Sample ID                                | Date Sampled | Location | Depth (feet) | PID Headspace (ppm) | TPH-G <sup>1</sup> | Benzene <sup>2</sup> | Toluene <sup>2</sup> | Ethylbenzene <sup>2</sup> | Total Xylenes <sup>2</sup> | Naphthalene <sup>2</sup> |
|--|--------------|----------|--------------|---------------------|--------------------|----------------------|----------------------|---------------------------|----------------------------|--------------------------|
| <b>Test Pits</b>                         |              |          |              |                     |                    |                      |                      |                           |                            |                          |
| TP-North                                 | 04/26/07     | TP-North | 4.5          | --                  | <b>8,000</b>       | <b>1.6</b>           | <b>120</b>           | <b>96</b>                 | <b>800</b>                 | --                       |
| TP-South                                 | 04/26/07     | TP-South | 4.5          | --                  | <2                 | <0.02                | 0.03                 | <0.02                     | <0.06                      | --                       |
| TP109-04.5                               | 04/26/07     | TP-109   | 4.5          | --                  | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| <b>Soil Borings - Well Installations</b> |              |          |              |                     |                    |                      |                      |                           |                            |                          |
| B-20-03                                  | 06/11/07     | B-20     | 3            | 2,980               | <b>5,600</b>       | <b>2.4</b>           | <b>110</b>           | <b>69</b>                 | <b>500</b>                 | --                       |
| B-20-07                                  | 06/11/07     | B-20     | 7            | 1,677               | <b>12,000</b>      | <b>27</b>            | <b>430</b>           | <b>180</b>                | <b>1,200</b>               | --                       |
| B-20-17                                  | 06/11/07     | B-20     | 17           | 100                 | <b>76</b>          | <b>0.11</b>          | 0.64                 | 0.70                      | 3.4                        | --                       |
| B-20-28.5                                | 06/11/07     | B-20     | 28.5         | 49.9                | 7                  | <b>0.54</b>          | 0.28                 | 0.08                      | 0.28                       | --                       |
| B-21-07.5                                | 06/11/07     | B-21     | 7.5          | 2.1                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| B-22-05                                  | 06/12/07     | B-22     | 5            | 6.8                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| B-22-09                                  | 06/12/07     | B-22     | 9            | 764                 | <b>2,000</b>       | <1                   | 5.6                  | <b>9.3</b>                | <b>49</b>                  | --                       |
| B-22-12                                  | 06/12/07     | B-22     | 12           | 83.1                | 4                  | <0.02                | <0.02                | 0.03                      | 0.09                       | --                       |
| B-22-15.5                                | 06/12/07     | B-22     | 15.5         | 28.7                | 5                  | <0.02                | <0.02                | <0.02                     | 0.10                       | --                       |
| B-23-04.5                                | 06/12/07     | B-23     | 4.5          | 2.2                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| B-23-07.5                                | 06/12/07     | B-23     | 7.5          | 2,442               | <b>10,000</b>      | <b>2.5</b>           | <b>120</b>           | <b>150</b>                | <b>850</b>                 | --                       |
| B-23-11                                  | 06/12/07     | B-23     | 11           | 63.0                | 20                 | <b>0.45</b>          | 2.7                  | 0.42                      | 2.1                        | --                       |
| B-23-15                                  | 06/12/07     | B-23     | 15           | 8.6                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| B-24-04.5                                | 06/12/07     | B-24     | 4.5          | 2.4                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| B-25-06                                  | 06/13/07     | B-25     | 6            | 0.3                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| P10-07                                   | 06/13/07     | P10      | 7            | 5.4                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| P10-10                                   | 06/13/07     | P10      | 10           | 50.9                | 4                  | <0.02                | <0.02                | 0.03                      | 0.15                       | --                       |
| P10-12                                   | 06/13/07     | P10      | 12           | 5.0                 | <2                 | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| P11-04                                   | 10/02/07     | P11      | 4            | 911                 | <b>550</b>         | <1                   | <1                   | 2.8                       | <b>24</b>                  | --                       |
| P11-07                                   | 10/02/07     | P11      | 7            | 1,990               | <b>2,200</b>       | <2                   | 71                   | <b>33</b>                 | <b>250</b>                 | --                       |
| P11-10                                   | 10/02/07     | P11      | 10           | 37.3                | 11                 | <0.02                | 0.08                 | 0.18                      | 1.4                        | --                       |
| P12-03                                   | 10/02/07     | P12      | 3            | 2,449               | <b>5,100</b>       | <b>11</b>            | <b>73</b>            | <b>67</b>                 | <b>480</b>                 | --                       |
| P12-06                                   | 10/02/07     | P12      | 6            | >2,500              | <b>7,300</b>       | <b>20</b>            | <b>150</b>           | <b>95</b>                 | <b>680</b>                 | --                       |
| P12-08                                   | 10/02/07     | P12      | 8            | 1,872               | <b>100</b>         | <b>0.61</b>          | 0.36                 | 1.8                       | 1.2                        | --                       |
| P13-03                                   | 10/02/07     | P13      | 3            | 1,774               | <b>1,500</b>       | <b>0.55</b>          | <b>11</b>            | <b>14</b>                 | <b>110</b> <sup>ve</sup>   | --                       |

**Table 1**  
**Summary of Soil Analytical Results**  
**The Hungry Whale**  
**1680 North Montesano Street, Westport, Washington**

| Sample ID  | Date Sampled | Location | Depth (feet) | PID Headspace (ppm) | TPH-G <sup>1</sup>  | Benzene <sup>2</sup> | Toluene <sup>2</sup> | Ethylbenzene <sup>2</sup> | Total Xylenes <sup>2</sup> | Naphthalene <sup>2</sup> |
|--|--------------|----------|--------------|---------------------|---------------------|----------------------|----------------------|---------------------------|----------------------------|--------------------------|
| P13-06   | 10/02/07     | P13      | 6            | 2,131               | <b>5,200</b>        | <b>14</b>            | <b>110</b>           | <b>66</b>                 | <b>480</b>                 | --                       |
| P13-10   | 10/02/07     | P13      | 10           | 79.2                | 11                  | <b>3.2</b>           | 0.06                 | 0.19                      | 0.10                       | --                       |
| P14-07   | 10/02/07     | P14      | 7            | 16.9                | <2                  | <b>0.61</b>          | <0.02                | <0.02                     | <0.06                      | --                       |
| P15-03   | 10/02/07     | P15      | 3            | 2,194               | <b>1,600</b>        | <b>2.2</b>           | <b>34</b>            | <b>24</b>                 | <b>150</b>                 | --                       |
| P15-06   | 10/02/07     | P15      | 6            | >2,500              | <b>2,300</b>        | <b>0.30</b>          | <b>30</b>            | <b>35</b>                 | <b>230</b>                 | --                       |
| P15-08   | 10/02/07     | P15      | 8            | 112                 | 8                   | <b>1.5</b>           | 0.09                 | 0.48                      | 0.29                       | --                       |
| P16-03   | 10/02/07     | P16      | 3            | 14.7                | 8                   | <b>0.13</b>          | 0.03                 | 0.07                      | 0.07                       | --                       |
| P16-06   | 10/02/07     | P16      | 6            | 2,050               | <b>5,300</b>        | <b>1.6</b>           | <b>9.9</b>           | <b>99</b>                 | <b>520</b>                 | --                       |
| P16-08   | 10/02/07     | P16      | 8            | 200                 | 7                   | <b>0.14</b>          | 0.03                 | 0.39                      | 0.42                       | --                       |
| P17-07   | 10/02/07     | P17      | 7            | 47.4                | 5                   | <b>0.07</b>          | <0.02                | <0.02                     | <0.06                      | --                       |
| P18-08   | 10/02/07     | P18      | 8            | 0.0                 | <2                  | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| P19-03   | 10/02/07     | P19      | 3            | 1.8                 | <2                  | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| P19-06   | 10/02/07     | P19      | 6            | 0.0                 | <2                  | <0.02                | <0.02                | <0.02                     | <0.06                      |                          |
| P20-07   | 10/02/07     | P20      | 7            | 0.0                 | <2                  | <0.02                | <0.02                | <0.02                     | <0.06                      |                          |
| P21-06   | 10/02/07     | P21      | 6            | 0.0                 | <2                  | <0.02                | <0.02                | <0.02                     | <0.06                      | --                       |
| MTCA Method A Cleanup Levels for Soil <sup>3</sup> |              |          |              |                     | 100/30 <sup>a</sup> | 0.03                 | 7                    | 6                         | 9                          | 5                        |

**NOTES:**

**Bold** indicates concentrations that exceed MTCA Method A Cleanup Levels for unrestricted land use.

Results reported in milligrams per kilogram unless otherwise indicated.

Chemical analyses conducted by Friedman & Bruya, Inc. of Seattle, Washington.

<sup>1</sup>Analyzed by Northwest Method NWT PH-Gx.

<sup>2</sup>Analyzed by EPA Method 8021B or 8260B.

<sup>3</sup>MTCA Method A Cleanup Levels for Soil from Table 740-1 of Washington Administrative Code 173-340-900 Tables.

<sup>a</sup>100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

-- = not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit

> = detected at a concentration exceeding the operational range of the instrument

EPA = United States Environmental Protection Agency

MTCA = Model Toxics Control Act

PID = photoionization detector

PPM = parts per million

TPH-G = gasoline-range petroleum hydrocarbons



**Table 2  
Summary of Groundwater Analytical Results  
The Hungry Whale  
1680 North Montesano Street  
Westport, Washington**

| Well/Sample ID                 | Sample Date | Depth to Groundwater <sup>1</sup><br>(feet) | Groundwater Elevation (feet) | TPH-G <sup>2</sup> | Benzene <sup>3</sup> | Toluene <sup>3</sup> | Ethylbenzene <sup>3</sup> | Total Xylenes <sup>3</sup> | Naphthalene <sup>3</sup> | MTBE <sup>3</sup> | EDC <sup>3</sup> |
|--------------------------------|-------------|---|------------------------------|--------------------|----------------------|----------------------|---------------------------|----------------------------|--------------------------|-------------------|------------------|
| <b>Monitoring Wells</b>        |             |   |                              |                    |                      |                      |                           |                            |                          |                   |                  |
| MW01 (UR)<br>TOC: No elevation |             |   |                              |                    | Not Located          |                      |                           |                            |                          |                   |                  |
| MW02 (UR)<br>TOC: 100.00       | 06/27/07    | 7.51  | 92.49                        | 44,000             | 5,400                | 5,900                | 1,300                     | 5,200                      | --                       | --                | --               |
| MW03 (UR)<br>TOC: 100.40       | 06/27/07    | 7.91  | 92.49                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW04*<br>TOC: 99.17            | 06/27/07    | 6.90  | 92.27                        | SPH                | SPH                  | SPH                  | SPH                       | SPH                        | --                       | --                | --               |
| MW05 (UR)<br>TOC: 99.60        | 06/27/07    | 6.79  | 92.81                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW06 (UR)<br>TOC: 98.52        | 06/27/07    | 5.98  | 92.54                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW07<br>TOC: 99.73             | 06/27/07    | 7.29  | 92.44                        | 110,000            | 15,000               | 13,000               | 2,600                     | 18,000                     | --                       | --                | --               |
| MW09*<br>TOC: 99.01            | 06/27/07    | 6.50  | 92.51                        | SPH                | SPH                  | SPH                  | SPH                       | SPH                        | --                       | --                | --               |
| MW10<br>TOC: 99.18             | 06/27/07    | 6.51  | 92.67                        | 50,000             | 1,300                | 2,200                | 1,200                     | 6,700                      | --                       | --                | --               |
| MW11<br>TOC: 98.97             | 06/27/07    | 6.89  | 92.08                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW12<br>TOC: 100.17            | 06/27/07    | 7.82  | 92.35                        | 20,000             | 14,000               | 28,000               | 1,700                     | 21,000                     | --                       | --                | --               |
| MW13 (UR)<br>TOC: 98.70        | 06/27/07    | 6.49  | 92.21                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW14 (UR)<br>TOC: 99.53        | 06/27/07    | 7.36  | 92.17                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW16<br>TOC: No elevation      |             |   |                              |                    | Not Located          |                      |                           |                            |                          |                   |                  |
| MW20<br>TOC: 100.09            | 06/27/07    | 7.82  | 92.27                        | 130,000            | 6,900                | 14,000               | 2,800                     | 15,000                     | --                       | --                | --               |
| MW21<br>TOC: 99.88             | 06/27/07    | 7.62  | 92.26                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW22<br>TOC: 100.09            | 06/27/07    | 7.45  | 92.64                        | 7,100              | 78                   | 42                   | 57                        | 520                        | --                       | --                | --               |
| MW23<br>TOC: 99.57             | 06/27/07    | 7.01  | 92.56                        | 92,000             | 1,500                | 9,300                | 2,000                     | 14,000                     | --                       | --                | --               |
| MW24<br>TOC: 97.93             | 06/27/07    | 5.15  | 92.78                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MW25<br>TOC: 98.74             | 06/27/07    | 6.45  | 92.29                        | <100               | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |



**Table 2  
Summary of Groundwater Analytical Results  
The Hungry Whale  
1680 North Montesano Street  
Westport, Washington**

| Well/Sample ID  | Sample Date | Depth to Groundwater <sup>1</sup><br>(feet) | Groundwater Elevation (feet) | TPH-G <sup>2</sup>     | Benzene <sup>3</sup> | Toluene <sup>3</sup> | Ethylbenzene <sup>3</sup> | Total Xylenes <sup>3</sup> | Naphthalene <sup>3</sup> | MTBE <sup>3</sup> | EDC <sup>3</sup> |
|---|-------------|---|------------------------------|------------------------|----------------------|----------------------|---------------------------|----------------------------|--------------------------|-------------------|------------------|
| <b>Push-Probe Investigations</b>                          |             |   |                              |                        |                      |                      |                           |                            |                          |                   |                  |
| P01   | 04/26/07    | --  | --                           | 110,000                | 780                  | 10,000               | 3,600                     | 21,000                     | --                       | --                | --               |
| P02   | 04/26/07    | --  | --                           | 120,000                | 5,400                | 22,000 <sup>ve</sup> | 3,200                     | 19,000                     | --                       | --                | --               |
| P03   | 04/26/07    | --  | --                           | 250,000                | 29,000               | 47,000               | 4,300                     | 26,200                     | 720                      | <100              | <100             |
| P04   | 04/26/07    | --  | --                           | 150,000                | 8,500                | 25,000 <sup>ve</sup> | 3,600                     | 22,000                     | --                       | --                | --               |
| P05   | 04/26/07    | --  | --                           | 100,000                | 9,500                | 10,000               | 1,700                     | 14,000                     | --                       | --                | --               |
| P06   | 04/26/07    | --  | --                           | 140,000                | 8,700                | 20,000 <sup>ve</sup> | 2,700                     | 19,000                     | --                       | --                | --               |
| P07   | 04/26/07    | --  | --                           | 15,000                 | <10                  | 21                   | 210                       | 1,580                      | 100                      | <10               | <10              |
| P08   | 04/26/07    | --  | --                           | 71,000                 | 4,100                | 4,000                | 2,000                     | 11,000                     | --                       | --                | --               |
| P11   | 10/02/07    | --  | --                           | 87,000                 | 1,200                | 9,300                | 2,500                     | 19,000                     | --                       | --                | --               |
| P14   | 10/02/07    | --  | --                           | 5,400                  | 1,800                | 12                   | 12                        | 12                         | --                       | --                | --               |
| P18   | 10/02/07    | --  | --                           | 5,500                  | 11                   | 7                    | 300                       | 980                        | --                       | --                | --               |
| P19   | 10/02/07    | --  | --                           | 140                    | 4                    | 2                    | <1                        | <3                         | --                       | --                | --               |
| P20   | 10/02/07    | --  | --                           | <100                   | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| <b>Drinking Water Sampling</b>                            |             |   |                              |                        |                      |                      |                           |                            |                          |                   |                  |
| DW-C1   | 05/04/07    | --  | --                           | <100                   | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| DW-C2   | 05/04/07    | --  | --                           | <100                   | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| DW-H1   | 05/04/07    | --  | --                           | <100                   | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| DW-H2   | 05/04/07    | --  | --                           | <100                   | <1                   | <1                   | <1                        | <3                         | --                       | --                | --               |
| MTCA Method A Cleanup Levels for Groundwater <sup>4</sup> |             |   |                              | 1,000/800 <sup>a</sup> | 5                    | 1,000                | 700                       | 1,000                      | 160                      | 20                | 5                |

**NOTES:**

Results reported in µg/L.

Concentrations exceeding MTCA Method A cleanup levels for groundwater are shown in red.

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

<sup>1</sup>Depth to water as measured from a fixed spot on the well casing rim.

<sup>2</sup>Analyzed by Northwest Method NWTPH-Gx.

<sup>3</sup>Analyzed by EPA Method 8260B or 8021B.

<sup>4</sup>MTCA Method A Cleanup Levels from Table 720-1 of Washington Administrative Code 173-340-900.

<sup>a</sup>Cleanup level is 1,000 µg/L if benzene is not present and 800 µg/L if benzene is present.

<sup>ve</sup>The value reported exceeded the calibration range for the analyte. The reported concentration is an estimate.

<sup>\*</sup>Groundwater elevation corrected for the presence of separate-phase hydrocarbons

< = not detected at a concentration exceeding the laboratory reporting limit

-- = not analyzed/measured

µg/L = micrograms per liter

EDC = 1,2-dichloroethane (ethylene dichloride)

EPA = United States Environmental Protection Agency

MTBE = methyl tertiary-butyl ether

MTCA = Model Toxics Control Act

SPH = separate-phase hydrocarbons

TOC = Top of casing elevation based on a relative site datum of 100.00 feet.

TPH-G = gasoline-range petroleum hydrocarbons

Table 2. Cumulative Summary (2007 - 2021) of Groundwater Analytical Results - TPH, VOCs, and Geochemical Parameters The Hungry Whale  
1680 North Montesano Street Westport, Washington

| Well Number (TOC in feet) | Sample Date        | Depth to Groundwater (feet) | SPH Thickness (feet) | Groundwater Elevation (feet) | TPH-G <sup>1</sup> (μg/L) | Volatile Organic Compounds <sup>2</sup> (VOCs) |                |                       |                      | Geochemical Parameters               |  |                                  |  |  |                             |   |   |    |
|---------------------------|--------------------|-----------------------------|----------------------|------------------------------|---------------------------|--|----------------|-----------------------|----------------------|--------------------------------------|--|----------------------------------|--|--|-----------------------------|---|---|----|
|                           |                    |                             |                      |                              |                           | Benzene (μg/L)                                 | Toluene (μg/L) | Ethyl- benzene (μg/L) | Total Xylenes (μg/L) | Dissolved Oxygen <sup>7</sup> (mg/L) | Oxygen Reduction Potential (ORP) <sup>8</sup> (mV) | Ferrous Iron <sup>9</sup> (mg/L) | Nitrate <sup>6</sup> as NO <sub>3</sub> (mg/L) | Sulfate <sup>6</sup> as SO <sub>4</sub> (mg/L) | Methane <sup>7</sup> (μg/L) | Total Alkalinity <sup>6</sup> as CaCO <sub>3</sub> (mg/L) | Manganese <sup>9</sup> , Dissolved (μg/L) |    |
| MW-01<br>(13.72)          | --                 | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/12/16            | 5.81                        | 0.00                 | 7.91                         | <100                      | <0.200   | <1.00          | <0.500                | <1.50                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/19/19<br>(13.72) | 7.81                        | 0.00                 | 5.91                         | <50                       | <1   | <1             | <1                    | <1                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/24/21            |                             |                      |                              |                           |  |                |                       |                      | Unable to Locate                     |  |                                  |  |  |                             |   |   |    |
| MW-02<br>(100.00)         | 8/27/07            | 7.51                        | 0.00                 | 92.49                        | 44,000                    | 5,400  | 5,900          | 1,300                 | 5,200                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 11/30/11           | 4.55                        | 0.00                 | 95.45                        | 43,000                    | 3,700  | 5,800          | 1,600                 | 6,100                | 4.90 H                               | -196   | 5.6 H                            | <0.100   | 11.0   | --                          | --  | --  | -- |
|                           | 3/6/12             | 4.61                        | 0.00                 | 95.39                        | 6,200                     | 1,400  | 68             | 250                   | 230                  | 0.79                                 | -92  | 17.4                             | 0.141  | 6.8  | 642                         | 246   | --  | -- |
|                           | 6/13/12            | 5.60                        | 0.00                 | 94.40                        | 14,000                    | 1,400  | 1,800          | 550                   | 1,500                | 3.36                                 | -88.2  | 16 H                             | <0.50  | 3.6  | 817                         | 228   | --  | -- |
|                           | 10/4/12            | 8.30                        | 0.00                 | 91.70                        | 51,500                    | 5,990  | 5,100          | 1,780                 | 6,810                | 2.88                                 | -120.4   | 27.2                             | <0.20  | <1.0   | 3,320                       | 297   | 257                                       | -- |
|                           | 6/4/13             | 5.98                        | 0.00                 | 94.02                        | 21,000                    | 1,600  | 2,800          | 750                   | 2,500                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/12/16            | 5.28                        | 0.00                 | 8.41                         | 5,340                     | 211  | 16.1           | 73.1                  | 106                  | 1.0                                  | -103   | 21,500                           | <0.250   | 15.5   | --                          | 146   | 209                                       | -- |
|                           | 6/20/19            | 7.52                        | 0.00                 | 6.17                         | 10,600                    | 1,160  | 474            | 410                   | 1,101                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/20/2019 DUP      | 7.52                        | 0.00                 | 6.17                         | 12,100                    | 1,370  | 627            | 452                   | 1,283                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/25/2021          | 7.12                        | 0.00                 | 6.57                         | 3,500                     | 227  | 26.5           | 116                   | 102                  | 0.46                                 | -285.4   | --                               | --   | --   | --                          | --  | --  | -- |
| MW-03 (UR)<br>(100.40)    | 6/27/07            | 7.91                        | 0.00                 | 92.49                        | <100                      | <1   | <1             | <1                    | <3                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 12/1/11            | 4.74                        | 0.00                 | 95.66                        | <250                      | <0.50  | <0.50          | <0.50                 | <3                   | --                                   | -121   | --                               | --   | --   | --                          | 146   | --  | -- |
|                           | 3/6/12             | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/13/12            | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 10/4/12            | 7.00                        | 0.00                 | 93.40                        | <50                       | <1.0   | <1.0           | <1.0                  | <3.0                 | 2.30                                 | -30.8  | 0.21                             | <0.20  | 2.4  | <6.6                        | 17.3  | 35.0                                      | -- |
|                           | 6/4/13             | 6.28                        | 0.00                 | 94.12                        | <80                       | <0.20  | <0.50          | <0.50                 | <1.0                 | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/12/16            | 5.65                        | 0.00                 | 8.42                         | <100                      | <0.200   | <1.00          | <0.500                | <1.50                | 6.4                                  | 67   | 4,220                            | 0.488  | 14.8   | --                          | 66.0  | 12.4                                      | -- |
|                           | 6/28/19            | 8.10                        | 0.00                 | 5.97                         | <50                       | <1   | <1             | <1                    | <1                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/24/21            |                             |                      |                              |                           |  |                |                       |                      | Unable to Locate                     |  |                                  |  |  |                             |   |   |    |
| MW-04<br>(99.17)          | 6/27/07            | 6.90                        | 0.02                 | 92.29                        | SPH (0.02)                | SPH (0.02)                                     | SPH (0.02)     | SPH (0.02)            | SPH (0.02)           | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 12/1/11            | 4.20                        | 0.10                 | 95.05                        | SPH (0.10)                | SPH (0.10)                                     | SPH (0.10)     | SPH (0.10)            | SPH (0.10)           | --                                   | --   | --                               | --   | --   | --                          | 66.0  | --  | -- |
|                           | 3/6/12             | 4.16                        | 0.01                 | 95.02                        | 74,000/SPH                | 4,700/SPH                                      | 5,800/SPH      | 2,300/SPH             | 16,000/SPH           | 0.26                                 | -80  | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/13/12            | 5.10                        | 0.00                 | 94.07                        | 75,000                    | 6,900  | 9,700          | 2,000                 | 13,000               | 1.64                                 | -19.0  | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 10/4/12            | 7.60                        | 0.15                 | 91.69                        | 116,000/SPH               | 13,800/SPH                                     | 13,200/SPH     | 2,670/SPH             | 14,900/SPH           | 3.79                                 | -39.4  | 39.6                             | <0.20  | <1.0   | 13,000                      | 283   | 1,130                                     | -- |
|                           | 6/4/13             | 5.51                        | 0.00                 | 93.66                        | 120,000/sheen             | 7,000/sheen                                    | 6,400/sheen    | 2,400/sheen           | 19,000/sheen         | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/14/16            | 4.51                        | 0.01                 | 8.35                         | 106,000/SPH               | 3,170/SPH                                      | 748/SPH        | 1,740/SPH             | 9,130/SPH            | 1.3                                  | -100   | 45,200                           | <0.250   | <1.00  | --                          | 112   | 714                                       | -- |
|                           | 6/20/19            | 6.97                        | 0.01                 | 5.89                         | 66,000/SPH                | 8,310/SPH                                      | 5,910/SPH      | 1,620/SPH             | 6,890/SPH            | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/25/21            | 6.32                        | 0.00                 | 6.53                         | 91,500                    | 4750   | 5980           | 1510                  | 8800                 | 0.22                                 | -359.9   | --                               | --   | --   | --                          | --  | --  | -- |
| MW-05<br>(99.60)          | 6/27/07            | 6.79                        | 0.00                 | 92.81                        | <100                      | <1   | <1             | <1                    | <3                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 11/30/11           | 3.55                        | 0.00                 | 96.05                        | <250                      | <0.50  | <0.50          | <0.50                 | <5.0                 | 10.1 H                               | -113   | 0.15 H                           | 0.104  | 5.26   | --                          | 74.8  | --  |    |
|                           | 3/6/12             | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/13/12            | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 10/4/12            | 7.80                        | 0.00                 | 91.80                        | 704                       | 314  | 2.5            | 77.0                  | 12.7                 | 4.79                                 | -114.2   | 2.5                              | 0.30   | 19.1   | 293                         | 150   | 92.2                                      |    |
|                           | 6/4/13             | 5.14                        | 0.00                 | 94.46                        | <80                       | <0.20  | <0.50          | <0.50                 | <1.0                 | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/12/16            | 4.53                        | 0.00                 | 8.77                         | <100                      | <0.200   | <1.00          | <0.500                | <1.50                | 6.2                                  | 89   | 3,540                            | 0.271  | 12.7   | --                          | 74.8  | <1.00                                     |    |
|                           | 6/20/19            | 6.91                        | 0.00                 | 6.39                         | 64.7                      | <1   | 3.63           | 3.56                  | 21.27                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/26/21            | 6.25                        | 0.00                 | 7.05                         | <100                      | <0.200   | <1.00          | <0.500                | <1.50                | #                                    | -168.2   | --                               | --   | --   | --                          | --  | --  | -- |
| MW-06<br>(98.52)          | 6/27/07            | 5.98                        | 0.00                 | 92.54                        | <100                      | <1   | <1             | <1                    | <3                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 12/1/11            | 3.14                        | 0.00                 | 95.38                        | <250                      | <0.50  | <0.50          | <0.50                 | <0.50                | --                                   | -137   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 3/6/12             | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/13/12            | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 10/4/12            | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/4/13             | --                          | --                   | --                           | --                        | --   | --             | --                    | --                   | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/12/16            | 4.46                        | 0.00                 | 94.06                        | <80                       | <0.20  | <0.50          | <0.50                 | <1.0                 | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/19/19            |                             |                      |                              |                           |  |                |                       |                      | Unable to Locate                     |  |                                  |  |  |                             |   |   |    |
|                           | 5/24/21            |                             |                      |                              |                           |  |                |                       |                      | Unable to Locate                     |  |                                  |  |  |                             |   |   |    |
| MW-07<br>(99.73)          | 6/27/07            | 7.29                        | 0.00                 | 92.44                        | 110,000                   | 15,000   | 13,000         | 2,600                 | 18,000               | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 11/29/11           | 4.48                        | 0.00                 | 95.25                        | 110,000                   | 6,200  | 15,000         | 2,400                 | 23,000               | 7.70 H                               | -114   | 5.1 H                            | <0.100 H                                       | 2.10 H   | --                          | --  | --  | -- |
|                           | 3/6/12             | 4.50                        | 0.00                 | 95.23                        | 100,000                   | 4,300  | 13,000         | 1,800                 | 18,000               | 0.29                                 | 25   | 10.0                             | <0.100   | 0.60   | 692                         | 53.0  | --  | -- |
|                           | 6/13/12            | 5.40                        | 0.00                 | 94.33                        | 71,000                    | 6,600  | 13,000         | 2,100                 | 19,000               | 8.60                                 | -24.8  | 31                               | <0.50  | <0.50  | 1,490                       | 160   | --  | -- |
|                           | 10/4/12            | 8.05                        | 0.05                 | 91.72                        | 129,000/SPH               | 9,350/SPH                                      | 12,600/SPH     | 2,320/SPH             | 22,100/SPH           | 14.02                                | 98.7   | 39.3                             | <0.20  | <1.0   | 4,730                       | 230   | 1,250                                     | -- |
|                           | 6/4/13             | 5.80                        | 0.00                 | 93.93                        | 140,000/sheen             | 8,200/sheen                                    | 14,000/sheen   | 2,200/sheen           | 23,000/sheen         | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/14/16            | 4.97                        | 0.00                 | 8.44                         | 214,000                   | 5,730  | 12,500         | 2,400                 | 24,900               | 1.4                                  | -44  | 44,200                           | <0.250   | <1.00  | --                          | 129   | 743                                       | -- |
|                           | 6/20/19            | 7.63                        | 0.00                 | 5.78                         | 105,000                   | 8,440  | 8,820          | 2,160                 | 15,470               | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/26/21            | 6.90                        | 0.00                 | 6.51                         | 164,000                   | 8,700  | 9,500          | 2,170                 | 24,000               | 0.38                                 | -161   | --                               | --   | --   | --                          | --  | --  | -- |
| MW-09<br>(99.01)          | 6/27/07            | 6.50                        | 0.08                 | 92.57                        | SPH (0.08)                | SPH (0.08)                                     | SPH (0.08)     | SPH (0.08)            | SPH (0.08)           | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 12/1/11            | 3.57                        | 0.01                 | 95.45                        | 1,000                     | 110  | 26             | 21                    | 84                   | --                                   | 636  | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 3/6/12             | 3.55                        | 0.01                 | 95.47                        | 1,800                     | 460  | 8.8            | 36                    | 55                   | 0.14                                 | -135   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 6/13/12            | 4.50                        | 0.00                 | 94.51                        | 7,200                     | 1,600  | 460            | 200                   | 810                  | 1.10                                 | -79.90   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 10/4/12            | 7.28                        | 0.00                 | 91.73                        | 22,200                    | 4,630  | 1,340          | 603                   | 3,600                | 1.14                                 | -13.8  | 26.4                             | <0.20  | <1.0   | 7,190                       | 164   | 466                                       |    |
|                           | 6/4/13             | 4.92                        | 0.00                 | 94.09                        | 8,300                     | 1,800  | 180            | 120                   | 270                  | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 4/14/16            | 4.06                        | 0.00                 | 8.63                         | 36,500                    | 4,250  | 455            | 455                   | 2,620                | 1.1                                  | -141   | 63,100                           | <0.250   | <1.00  | --                          | 228   | 1,290                                     |    |
|                           | 6/20/19            | 6.54                        | 0.00                 | 6.15                         | 16,500                    | 4,390  | 60.5           | 436                   | 778.8                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 5/26/21            | 6.02                        | 0.00                 | 6.67                         | 15,100                    | 2,450  | <50.0          | 209                   | 503                  | 0.4                                  | -155.9   | --                               | --   | --   | --                          | --  | --  | -- |
| MW-10<br>(13.41)          | 6/27/07            | 6.51                        | 0.00                 | 92.67                        | 50,000                    | 1,300  | 2,200          | 1,200                 | 6,700                | --                                   | --   | --                               | --   | --   | --                          | --  | --  | -- |
|                           | 11/30/11           | 3.59                        | 0.00                 | 95.99                        | 6,200                     | 610  | 53             | 390                   | 390                  | 4.80 H                               | -103   | 7.0 H                            | <0.100   | 9.99   | --                          | --  | --  | -- |
|                           | 3/6/12             | 3.53                        | 0.00                 | 95.65                        | 2,200                     | 150  | 13             | 43                    | 140                  | 0.00                                 | -125   | 9.10                             | <0.100   | 4.0  | 1,330                       | 105   | --  |    |
|                           | 3/6                |                             |                      |                              |                           |  |                |                       |                      |                                      |  |                                  |  |  |                             |   |   |    |



|  |             |      |      |       |                         |        |       |        |        |      |        |       |        |       |     |      |     |
|--|-------------|------|------|-------|-------------------------|--------|-------|--------|--------|------|--------|-------|--------|-------|-----|------|-----|
| (13.23)                                    | 5/25/21     | 6.78 | 0.00 | 6.45  | 82,500                  | 194    | 4,450 | 2,080  | 11,700 | 0.40 | -252.1 | --    | --     | --    | --  | --   | --  |
| (13.23)                                    | 5/25/21 DUP | 6.78 | 0.00 | 6.45  | 88,000                  | 214    | 4,650 | 2,200  | 12,400 | --   | --     | --    | --     | --    | --  | --   | --  |
| MW-24                                      | 6/27/07     | 5.15 | 0.00 | 92.78 | <100                    | <1     | <1    | <1     | <3     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 12/1/11     | 2.14 | 0.00 | 95.79 | <250                    | <0.50  | <0.50 | <0.50  | <0.50  | --   | -133   | --    | --     | --    | --  | --   | --  |
|  | 3/6/12      | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
| (97.93)                                    | 6/13/12     | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 10/4/12     | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 6/4/13      | 3.47 | 0.00 | 94.46 | <80                     | <0.20  | <0.50 | <0.50  | <1.0   | --   | --     | --    | --     | --    | --  | --   | --  |
| (11.61)                                    | 4/12/16     | 2.74 | 0.00 | 8.87  | <100                    | <0.200 | <1.00 | <0.500 | <1.50  | 1.4  | 99     | 5,170 | <0.250 | <1.00 | --  | 35.6 | 105 |
| (11.61)                                    | 6/26/19     | 5.51 | 0.00 | 6.10  | <50                     | <1     | <1    | <1     | <1     | --   | --     | --    | --     | --    | --  | --   | --  |
| MW-25                                      | 6/27/07     | 6.45 | 0.00 | 92.29 | <100                    | <1     | <1    | <1     | <3     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 12/1/11     | 3.68 | 0.00 | 95.06 | <250                    | <0.50  | <0.50 | <0.50  | <0.50  | --   | 123    | --    | --     | --    | --  | --   | --  |
|  | 3/6/12      | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
| (98.74)                                    | 6/13/12     | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 10/4/12     | --   | --   | --    | --                      | --     | --    | --     | --     | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 6/4/13      | 5.02 | 0.00 | 93.72 | <80                     | <0.20  | <0.50 | <0.50  | <1.0   | --   | --     | --    | --     | --    | --  | --   | --  |
|  | 4/13/16     | 4.25 | 0.00 | 8.16  | 2,820                   | 76.3   | <1.00 | 45.5   | 101    | 1.2  | 25     | 9,690 | <0.250 | 6.24  | --  | 65.0 | 235 |
| (12.41)                                    | 5/20/16     | 5.77 | 0.00 | 6.64  | 94.4                    | <1.00  | <1.00 | 1.10   | 1.08   | --   | --     | --    | --     | --    | --  | --   | --  |
| (12.41)                                    | 1/9/18      | 3.36 | 0.00 | 9.05  | 123                     | 2.15   | <1.00 | <1.00  | 33.7   | --   | --     | --    | --     | --    | --  | --   | --  |
| (12.41)                                    | 6/19/19     | 6.52 | 0.00 | 5.89  | <50                     | <1     | <1    | <1     | 1.60   | --   | --     | --    | --     | --    | --  | --   | --  |
| MTCA Method A Cleanup Levels <sup>10</sup> |             | N/A  | N/A  | N/A   | 800/1,000 <sup>11</sup> | 5      | 1,000 | 700    | 1,000  | N/A  | N/A    | N/A   | N/A    | N/A   | N/A | N/A  | N/A |

<sup>3</sup> Dissolved Oxygen analysis collected as a field parameter, except samples collected November 2011, which were analyzed by laboratory

<sup>4</sup> Oxygen Reduction Potential collected as a field parameter

<sup>5</sup> Ferrous Iron analysis by Method SM3500-Fe B

<sup>6</sup> Nitrate and Sulfate analysis by Ion Chromatography by EPA Method 300.0

<sup>7</sup> Methane analysis by Method RSK-175M

<sup>8</sup> Total Alkalinity analysis by Method SM 2320B

<sup>9</sup> Manganese analysis by EPA Method 6010

<sup>10</sup> Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Level for groundwater - November 2007.

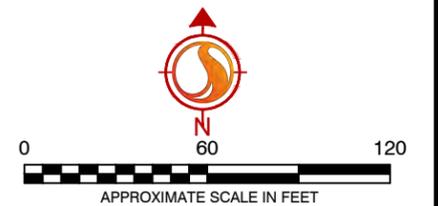
<sup>11</sup> MTCA Method A Cleanup Level for TPH-G in groundwater is 800 µg/L if benzene is detected; but is 1,000 µg/L if benzene is not detected. SPH = Separate Phase Hydrocarbons Groundwater Elevation calculated using "Groundwater Elevation = TOC-(Depth to Water -(SPH thickness\*0.77))" where 0.77 is a generic density of gasoline.

- LEGEND**
- APPROXIMATE BOUNDARY
  - ELECTRIC LINE
  - SANITARY SEWER LINE
  - UNDERGROUND TELEPHONE LINE
  - WATER LINE
  - SYSTEM PIPING
  - PRODUCT LINE
  - MW-03 MONITORING WELL (1992 & 2005)
  - MW-20 MONITORING WELL (2007)
  - EW-05 EXTRACTION WELL (1997-1999)
  - IW-01 INJECTION WELL (1997-1999)

**ANALYTE**

| WELL ID | ANALYTE                                     |
|---------|---|
| TPH-G   | TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE |
| B       | BENZENE                                     |
| T       | TOLUENE                                     |
| E       | ETHYL BENZENE                               |
| X       | TOTAL XYLENES                               |

- NS NOT SAMPLED
- μg/L MICROGRAMS PER LITER
- BOLD** EXCEEDS MTCA METHOD A CLEANUP LEVELS
- SPH SEPARATE PHASE HYDROCARBONS
- NOT MEASURED OR ANALYZED
- <0.20 NOT DETECTED ABOVE METHOD REPORTING LIMIT OF 0.20 μg/L
- ALL ANALYTICAL DATA REPORTED IN μg/L
- GENERALIZED GROUNDWATER GRADIENT AND DIRECTION. GROUNDWATER CONTOURS BASED ON JUNE 2019 DATA; SEE FIG-3i



No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

| MW-5  | 11/30/11 | 3/6/12 | 6/3/12 | 10/4/12    | 6/4/13 | 4/12/16 | 6/20/19 |
|-------|----------|--------|--------|------------|--------|---------|---------|
| TPH-G | <250     | --     | --     | 704        | <80    | <100    | 64.7    |
| B     | <0.50    | --     | --     | <b>314</b> | <0.20  | <0.200  | <1      |
| T     | <0.50    | --     | --     | 2.5        | <0.50  | <1.00   | 3.63    |
| E     | <0.50    | --     | --     | 77.0       | <0.50  | <0.500  | 3.56    |
| X     | <0.50    | --     | --     | 12.7       | <1.0   | <1.50   | 21.27   |

| MW-23 | 11/30/11      | DUP.          | 3/6/12        | 6/3/12        | 10/4/12       | 6/4/13        | 4/13/16        | 6/20/19       |
|-------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|
| TPH-G | <b>51,000</b> | <b>47,000</b> | <b>55,000</b> | <b>56,000</b> | <b>70,500</b> | <b>88,000</b> | <b>158,000</b> | <b>52,100</b> |
| B     | <b>470</b>    | <b>560</b>    | <b>630</b>    | <b>830</b>    | <b>1,320</b>  | <b>770</b>    | <b>280</b>     | <b>374</b>    |
| T     | <b>3,700</b>  | <b>4,000</b>  | <b>5,700</b>  | <b>5,600</b>  | <b>6,850</b>  | <b>5,200</b>  | <b>4,860</b>   | <b>4,350</b>  |
| E     | <b>1,100</b>  | <b>1,200</b>  | <b>2,200</b>  | <b>2,300</b>  | <b>1,580</b>  | <b>2,800</b>  | <b>3,230</b>   | <b>1,840</b>  |
| X     | <b>7,100</b>  | <b>7,700</b>  | <b>12,000</b> | <b>15,000</b> | <b>10,000</b> | <b>17,000</b> | <b>21,700</b>  | <b>10,450</b> |

| MW-22 | 11/30/11     | 3/6/12 | 6/3/12       | 10/4/12      | 6/4/13 | 4/13/16      | 6/21/19      |
|-------|--------------|--------|--------------|--------------|--------|--------------|--------------|
| TPH-G | <b>3,000</b> | <250   | <b>1,500</b> | <b>3,230</b> | 730    | <b>2,010</b> | <b>1,490</b> |
| B     | <2.00        | 0.90   | 0.92         | <b>8.8</b>   | 0.23   | <0.200       | 1.78         |
| T     | 17           | 2.2    | 4.9          | 21.2         | 1.2    | 1.15         | 1.87         |
| E     | 47           | 1.6    | 61           | 118          | 6.1    | 7.08         | 15.30        |
| X     | 160          | 9.3    | 43           | 121          | 33     | 19.1         | 47.78        |

| MW-10 | 11/30/11     | 3/6/12       | 6/3/12       | 10/4/12       | 6/4/13        | 4/13/16       | 6/21/19      |
|-------|--------------|--------------|--------------|---------------|---------------|---------------|--------------|
| TPH-G | <b>6,200</b> | <b>2,200</b> | <b>6,900</b> | <b>16,900</b> | <b>15,000</b> | <b>22,800</b> | <b>5,640</b> |
| B     | <b>610</b>   | <b>150</b>   | <b>640</b>   | <b>1,340</b>  | <b>1,300</b>  | <b>1,390</b>  | <b>296</b>   |
| T     | 53           | 13           | 440          | 464           | 360           | 63.9          | 11.4         |
| E     | 390          | 43           | 330          | <b>930</b>    | <b>500</b>    | 555           | 312          |
| X     | 390          | 140          | <b>1,400</b> | <b>2,620</b>  | <b>1,400</b>  | <b>2,300</b>  | 293.6        |

| MW-9  | 12/1/11      | 3/6/12       | 6/3/12       | 10/4/12       | 6/4/13       | 4/14/16       | 6/20/19       |
|-------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|
| TPH-G | <b>1,000</b> | <b>1,800</b> | <b>7,200</b> | <b>22,200</b> | <b>8,300</b> | <b>36,500</b> | <b>16,500</b> |
| B     | <b>110</b>   | <b>460</b>   | <b>1,600</b> | <b>4,630</b>  | <b>1,800</b> | <b>4,250</b>  | <b>4,390</b>  |
| T     | 26           | 8.8          | 460          | <b>1,340</b>  | 180          | <b>1,030</b>  | 60.5          |
| E     | 21           | 36           | 200          | 603           | 120          | 455           | 436           |
| X     | 84           | 55           | 810          | <b>3,600</b>  | 270          | <b>2,620</b>  | 778.8         |

| MW-24 | 12/1/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/12/16 | 6/26/19 |
|-------|---------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250    | --     | --     | --      | <80    | <100    | <50     |
| B     | <0.50   | --     | --     | --      | <0.20  | <0.200  | <1      |
| T     | <0.50   | --     | --     | --      | <0.50  | <1.00   | <1      |
| E     | <0.50   | --     | --     | --      | <0.50  | <0.500  | <1      |
| X     | <0.50   | --     | --     | --      | <1.0   | <1.50   | <1      |

| MW-6  | 12/1/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 |
|-------|---------|--------|--------|---------|--------|
| TPH-G | <250    | --     | --     | --      | <80    |
| B     | <0.50   | --     | --     | --      | <0.20  |
| T     | <0.50   | --     | --     | --      | <0.50  |
| E     | <0.50   | --     | --     | --      | <0.50  |
| X     | <0.50   | --     | --     | --      | <1.0   |

| MW-20 | 6/4/13         | 4/13/16        | 6/20/19       |
|-------|----------------|----------------|---------------|
| TPH-G | <b>100,000</b> | <b>184,000</b> | <b>88,400</b> |
| B     | <b>8,800</b>   | <b>6,500</b>   | <b>7,550</b>  |
| T     | <b>9,800</b>   | <b>14,500</b>  | <b>9,040</b>  |
| E     | <b>2,600</b>   | <b>3,240</b>   | <b>3,440</b>  |
| X     | <b>11,000</b>  | <b>19,400</b>  | <b>11,460</b> |

| MW-11 | 11/30/11  | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/14/16 | 6/20/19 |
|-------|-----------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250      | --     | --     | --      | <80    | <100    | <50     |
| B     | <b>20</b> | --     | --     | --      | <0.20  | <0.200  | <1      |
| T     | 27        | --     | --     | --      | <0.50  | <1.00   | <1      |
| E     | 3.7       | --     | --     | --      | <0.50  | <0.500  | <1      |
| X     | 16        | --     | --     | --      | <1.0   | <1.50   | 2.50    |

| MW-25 | 12/1/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/13/16      | 5/20/16 | 1/9/18 | 6/19/19 |
|-------|---------|--------|--------|---------|--------|--------------|---------|--------|---------|
| TPH-G | <250    | --     | --     | --      | <80    | <b>2,820</b> | 94.4    | 123    | <50     |
| B     | <0.50   | --     | --     | --      | <0.20  | <b>76.3</b>  | <1.00   | <1     | <1      |
| T     | <0.50   | --     | --     | --      | <0.50  | <1.00        | <1.00   | <1     | <1      |
| E     | <0.50   | --     | --     | --      | <0.50  | 45.5         | 1.10    | <1     | 1       |
| X     | <0.50   | --     | --     | --      | <1.0   | 101          | 1.08    | 1.60   | 1.60    |

| MW-4  | 12/1/11           | 3/6/12        | 6/3/12         | 10/4/12        | 6/4/13         | 4/14/16       | 6/20/19 |
|-------|-------------------|---------------|----------------|----------------|----------------|---------------|---------|
| TPH-G | <b>SPH 74,000</b> | <b>75,000</b> | <b>116,000</b> | <b>120,000</b> | <b>106,000</b> | <b>66,000</b> |         |
| B     | <b>SPH 4,700</b>  | <b>6,900</b>  | <b>13,800</b>  | <b>7,000</b>   | <b>3,170</b>   | <b>8,310</b>  |         |
| T     | <b>SPH 5,800</b>  | <b>9,700</b>  | <b>13,200</b>  | <b>6,400</b>   | 748            | <b>5,910</b>  |         |
| E     | <b>SPH 2,000</b>  | <b>2,000</b>  | <b>2,570</b>   | <b>2,400</b>   | <b>1,740</b>   | <b>1,620</b>  |         |
| X     | <b>SPH 16,000</b> | <b>13,000</b> | <b>14,900</b>  | <b>19,000</b>  | <b>9,130</b>   | <b>6,890</b>  |         |

| MW-3  | 12/1/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/12/16 | 6/26/19 |
|-------|---------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250    | --     | --     | <50     | <80    | <100    | <50     |
| B     | <0.50   | --     | --     | <1      | <0.20  | <0.200  | <1      |
| T     | <0.50   | --     | --     | <1      | <0.50  | <1.00   | <1      |
| E     | <0.50   | --     | --     | <1      | <0.50  | <0.500  | <1      |
| X     | <0.50   | --     | --     | <3      | <1.0   | <1.50   | <1      |

| MW-2  | 11/30/11      | 3/6/12       | 6/3/12        | 10/4/12       | 6/4/13        | 4/12/16      | 6/20/19       |
|-------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|
| TPH-G | <b>43,000</b> | <b>6,200</b> | <b>14,000</b> | <b>51,500</b> | <b>21,000</b> | <b>5,340</b> | <b>12,100</b> |
| B     | <b>3,700</b>  | <b>1,400</b> | <b>1,400</b>  | <b>5,990</b>  | <b>1,600</b>  | 211          | <b>1,370</b>  |
| T     | <b>5,800</b>  | 68           | <b>1,800</b>  | <b>5,100</b>  | <b>2,800</b>  | 16.1         | 627           |
| E     | <b>1,600</b>  | 250          | 550           | <b>1,780</b>  | <b>750</b>    | 73.1         | 452           |
| X     | <b>6,100</b>  | 230          | <b>1,500</b>  | <b>6,810</b>  | <b>2,500</b>  | 106          | <b>1,283</b>  |

| MW-21 | 11/30/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/12/16 | 6/19/19 |
|-------|----------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250     | --     | --     | --      | <80    | <100    | <50     |
| B     | <0.50    | --     | --     | --      | <0.20  | <0.200  | <1      |
| T     | <0.50    | --     | --     | --      | <0.50  | <1.00   | <1      |
| E     | <0.50    | --     | --     | --      | <0.50  | <0.500  | <1      |
| X     | <0.50    | --     | --     | --      | <1.0   | <1.50   | <1      |

| MW-12 | 11/29/11       | 3/6/12         | 6/3/12         | 10/4/12            | 6/4/13         | 4/14/16        | 6/19/19 |
|-------|----------------|----------------|----------------|--------------------|----------------|----------------|---------|
| TPH-G | <b>130,000</b> | <b>100,000</b> | <b>100,000</b> | <b>SPH 160,000</b> | <b>252,000</b> | <b>109,000</b> |         |
| B     | <b>9,000</b>   | <b>8,900</b>   | <b>6,800</b>   | <b>SPH 8,600</b>   | <b>5,020</b>   | <b>3,440</b>   |         |
| T     | <b>20,000</b>  | <b>24,000</b>  | <b>19,000</b>  | <b>SPH 21,000</b>  | <b>16,300</b>  | <b>13,200</b>  |         |
| E     | <b>2,700</b>   | <b>2,700</b>   | <b>2,500</b>   | <b>SPH 2,400</b>   | <b>2,650</b>   | <b>2,600</b>   |         |
| X     | <b>20,000</b>  | <b>22,000</b>  | <b>21,000</b>  | <b>SPH 22,000</b>  | <b>29,600</b>  | <b>19,240</b>  |         |

| MW-01 | 4/12/16 | 6/19/19 |
|-------|---------|---------|
| TPH-G | <100    | <50     |
| B     | <0.200  | <1      |
| T     | <1.00   | <1      |
| E     | <0.500  | <1      |
| X     | <1.50   | <1      |

| MW-14 | 11/30/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/12/16 | 6/19/19 |
|-------|----------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250     | --     | --     | --      | <80    | <100    | <50     |
| B     | <0.50    | --     | --     | --      | <0.20  | <0.200  | <1      |
| T     | <0.50    | --     | --     | --      | <0.50  | <1.00   | <1      |
| E     | <0.50    | --     | --     | --      | <0.50  | <0.500  | <1      |
| X     | <0.50    | --     | --     | --      | <1.0   | <1.50   | <1      |

| MW-7  | 11/29/11       | 3/6/12         | 6/3/12        | 10/4/12        | 6/4/13         | 4/14/16        | 6/20/19        |
|-------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|
| TPH-G | <b>110,000</b> | <b>100,000</b> | <b>71,000</b> | <b>129,000</b> | <b>140,000</b> | <b>214,000</b> | <b>105,000</b> |
| B     | <b>6,200</b>   | <b>4,300</b>   | <b>6,600</b>  | <b>9,350</b>   | <b>8,200</b>   | <b>5,730</b>   | <b>8,440</b>   |
| T     | <b>15,000</b>  | <b>13,000</b>  | <b>13,000</b> | <b>12,600</b>  | <b>14,000</b>  | <b>12,500</b>  | <b>8,820</b>   |
| E     | <b>2,400</b>   | <b>1,800</b>   | <b>2,100</b>  | <b>2,320</b>   | <b>2,200</b>   | <b>2,400</b>   | <b>2,160</b>   |
| X     | <b>23,000</b>  | <b>18,000</b>  | <b>19,000</b> | <b>22,100</b>  | <b>23,000</b>  | <b>24,900</b>  | <b>15,470</b>  |

| MW-13 | 11/30/11 | 3/6/12 | 6/3/12 | 10/4/12 | 6/4/13 | 4/14/16 | 6/19/19 |
|-------|----------|--------|--------|---------|--------|---------|---------|
| TPH-G | <250     | --     | --     | --      | <80    | <100    | <50     |
| B     | <0.50    | --     | --     | --      | <0.20  | <0.200  | <1      |
| T     | <0.50    | --     | --     | --      | <0.50  | <1.00   | <1      |
| E     | <0.50    | --     | --     | --      | <0.50  | <0.500  | <1      |
| X     | <0.50    | --     | --     | --      | <1.0   | <1.50   | 1.44    |

|   |      |  |  |  |           |
|---|------|--|--|--|-----------|
| <br>11130 NE 33RD PLACE, SUITE 200<br>BELLEVUE, WASHINGTON<br>PHONE: (425) 869-9448 FAX: (425) 869-1190 | FOR: | <b>THE HUNGRY WHALE</b><br>1680 NORTH MONTESANO STREET<br>WESTPORT, WASHINGTON | <b>GROUNDWATER ANALYTICAL RESULTS (2011-2019) AND GRADIENT MAP (JUNE 2019)</b> |  | FIGURE:</ |
|---|------|--|--|--|-----------|

# APPENDIX B

## Project Approvals/Issued Permits – Department of Ecology





**STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY**

**Southwest Regional Office**

PO Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

***STATE ENVIRONMENTAL POLICY ACT*  
DETERMINATION OF NONSIGNIFICANCE**

**Date of Issuance:** May 3, 2022

**Lead agency:** Department of Ecology, Toxics Cleanup Program, Southwest Region

**Agency Contact:** Andrew Smith  
Cleanup Project Manager  
[andrew.smith@ecy.wa.gov](mailto:andrew.smith@ecy.wa.gov)  
(360)-407-6316

**Permit Number:** Work is to be performed under the authority of a Model Toxics Control Act Agreed Order No. DE 20344

**Description of proposal:**

The project consists of decommissioning the Hungry Whale Site and a remedial action consisting of excavating contaminated soil and dewatering contaminated groundwater from the excavation. This action is required by the Department of Ecology (Ecology) through an Agreed Order between the Port of Grays Harbor and Ecology.

Decommissioning will include removal of the convenience store, all underground storage tanks (USTs), and one fuel dispenser island equipped with four fuel dispensers. In addition, the product lines, vent lines, canopy, and canopy footings will be removed.

A remedial excavation will be implemented to remove soils contaminated with petroleum. The current projection is that up to 5,200 cubic yards (CY) of soil may be excavated and transported off-site for disposal. In addition to soil excavation, remedial actions will include pumping contaminated groundwater from the excavation. The contaminated groundwater will be treated with activated carbon to remove contaminants before being discharged under a Department of Ecology General Construction Stormwater Permit to the City of Westport stormwater system. The excavation will be backfilled with clean construction fill to site grade.

The groundwater will be monitored following the remedial action to assess the condition of the groundwater with respect to contamination. An environmental covenant will be placed on the property if it is determined that soil or groundwater contamination remains on the site.

**Location of proposal:** The work will be employed at 1680 N. Montesano St, Westport, WA.

**Applicant/Proponent:** Port of Grays Harbor

**Project Representative:** Randy Lewis  
Director of Health, Safety, and Environment  
PO Box 660  
Aberdeen, WA 98520  
360-533-9513  
[rlewis@portgrays.org](mailto:rlewis@portgrays.org)

Ecology has determined that this proposal will not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). We have reviewed the attached Environmental Checklist, as well as the Remedial Investigation/Feasibility Study and Public Review Draft Cleanup Action Plan.

**These documents are available at:**

|  |   |   |
|--|---|---|
| Port of Grays Harbor Main Office<br>111 S Wooding St<br>Aberdeen, WA 98520 | Westport Timberland Library<br>101 E. Harms Drive<br>Westport, WA 98595 | Ecology Lacey Office<br>(by appointment)<br>300 Desmond Drive SE<br>Lacey, WA 98503 |
|--|---|---|

**This determination is based on the following findings and conclusions:**

- The project will reduce concentrations of petroleum hydrocarbons and constituents in the soil and groundwater.
- Engineering design documents will be prepared and approved by Ecology to ensure all on-site work will be performed in accordance with applicable standards and use of best management construction and erosion control practices.
- Contaminated soils will be managed in accordance with a previously-approved (by Ecology) soils testing and disposal plan.
- The work will be conducted under the requirements of a construction stormwater NPDES permit, which requires adherence with a stormwater pollution prevention plan.
- The Ecology cleanup project manager will provide oversight during project construction.

The comment period for this DNS corresponds with the comment period for the Remedial Investigation/Feasibility Study, Public Review Draft Cleanup Action Plan, and associated Agreed Order. The comment period begins on June 2, 2022, and ends on July 5, 2022.

**Responsible Official:** Rebecca S. Lawson, P.E., LHG  
Section Manager  
Toxics Cleanup Program  
Southwest Regional Office  
Department of Ecology  
P.O. Box 47775  
Olympia, WA 98504-7600  
360-407-6241  
[rebecca.lawson@ecy.wa.gov](mailto:rebecca.lawson@ecy.wa.gov)

Signature: 

Date: May 3, 2022

**DNS Letter Attachment - SEPA Checklist (7/15/2021)**

# SEPA ENVIRONMENTAL CHECKLIST

## ***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

## ***Instructions for applicants:***

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

## ***Instructions for Lead Agencies:***

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

## ***Use of checklist for nonproject proposals:***

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

## ***A. Background*** [\[HELP\]](#)

1. Name of proposed project, if applicable:

**The Hungry Whale Site**

2. Name of applicant:

**The Port of Grays Harbor**

3. Address and phone number of applicant and contact person:

**Port of Grays Harbor  
PO Box 660  
Aberdeen, WA 98520  
Contact: Randy Lewis  
360.533.9513**

4. Date checklist prepared:

**July 15, 2021**

5. Agency requesting checklist:

**Washington Department of Ecology**

6. Proposed timing or schedule (including phasing, if applicable):

**Construction is planned for August through September 2022. There are several approvals and permits required which may delay construction until the same period in 2023**

7. Do you have any plans for future addition, or further activity related to or connected with this proposal? If yes, explain.

**No. The current facility is to be removed and made available for redevelopment by a future developer.**

**No current redevelopment plans**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

**A detailed summary of the environmental history of the Site is provided in the following document (publicly available on The Department of Ecology's Clean-up Site List)**

**<https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=4988> :**

**Environmental Information currently prepared:**

- **Remedial Investigation and Feasibility Study (RIFS) The Hungry Whale dated April 22, 2020**
- **Clean up Action Plan (dCAP) The Hungry Whale dated July 15, 2021**

**Environmental Information to be prepared:**

- **A UST Closure and Site Assessment will be prepared following Site decommissioning. USTs will be closed in accordance with Washington Department of Ecology (Ecology) document: 'Guidance for Site Checks and Site**

**Assessments for Underground Storage Tanks' (Ecology, February 1991 (revised October 2018)). Site assessment activities to be completed by a certified Washington State Site Assessor (8025441-U7) as required by Washington Administrative Code (WAC) 173-360-610**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

- **There are no other proposals directly affecting the property**

10. List any government approvals or permits that will be needed for your proposal, if known.

**Several permits approvals will follow the SEPA approval:**

- **Olympic Region Clean Air Agency (ORCAA) demolition permit;**
- **Department of Ecology (Ecology) Construction Stormwater General Permit**
- **Department of Ecology 30-Day Notice for Underground Storage Tank System**

**The City of Westport will require:**

- **A demolition permit;**
- **Permits to cap sewer and water lines;**
- **A fill and grade permit**

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

**The project consists of decommissioning the Hungry Whale Site and a remedial action consisting of excavating contaminated soil and dewatering contaminated groundwater from the excavation. This action is required by the Department of Ecology (Ecology) through an Agreed Order between the Port of Grays Harbor and Ecology.**

**Decommissioning will include removal of the convenience store, the underground storage tank (UST) and one fuel dispenser island equipped with four fuel dispensers. In addition, the product lines, vent lines, canopy and canopy footings will be removed.**

**A remedial excavation will be implemented to remove soils contaminated with petroleum. The current projection is that up to 5,200 cubic yards (CY) of soil may be excavated and transported off-site for disposal. In addition to soil excavation, remedial actions will include pumping contaminated groundwater from the excavation. The groundwater will be treated with activated carbon to remove contaminants before being discharged under a Department of Ecology General Construction Stormwater Permit to the City of Westport stormwater system.**

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you

are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

Project Location:

**1680 N Montesano Street, Westport WA. The property is the northeast quarter of the southeast quarter of Section 1, Township 16 North, Range 12 West. See attached Figure X**

## **B. Environmental Elements** [\[HELP\]](#)

### 1. **Earth** [\[help\]](#)

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other \_\_\_\_\_

b. What is the steepest slope on the site (approximate percent slope)?

**The topographic surface of the site is relatively flat with elevations ranging from 12.5 to 14 feet above mean sea level (msl). Based on these measurements the slope on the site does not exceed approximately 2 %.**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

**Based on boring logs, the near surface material (ground surface approximately 5 feet) consists of fine-grained sand with minor silt and gravel, interpreted to be fill or marsh deposits. In the center and southeastern parts of the property a silty clay/clayey silt layer has been observed at the base of the fill/marsh deposits at depths of approximately 6.5 feet. This layer may be representative of dredged marsh or tidal flat sediments that were historically imported as fill. The thickness of the fill decreases significantly beyond the property limits. Soils beneath the fill material were observed at depths greater than approximately 7 feet and consist of fine to medium sand with varying amounts of silt, interpreted to be eolian and/or shallow marine deposits. The maximum depth explored was 30 feet in one soil boring (approximately twice as deep as the other borings).**

**The proposed remedial excavation will extend to a maximum depth of 12 feet.**

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

**No**

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The project includes decommissioning and removal of one, 20,000-gallon UST with three compartments (10,000-gallon gasoline, 6,000-gallon gasoline and 4,000-gallon diesel). In addition, the product lines, vent lines, dispenser island, canopy and canopy footings will be removed. Excavations for removal of these improvements will be subsequently backfilled and compacted and the surface will be finished with gravel.

The maximum quantity of disturbed soils is currently estimated at up to 5,200 cubic yards (CY). During the remedial excavation, soils will be field screened and if soils are determined to be free of petroleum hydrocarbons those soils will not be excavated and this will result in excavation of less than 5,200 CY. All of the excavated areas will be backfilled with clean imported soil. The quantity of backfill will not exceed 5,200 CY and will depend on the actual volume of soil excavated.

- **Maximum Total Area Excavated: 14,800 ft<sup>2</sup> (see Figure 12 attached with maximum area shown)**
- **Type of Backfill: Clean structural fill that will be compacted to 95%**
- **Source of Backfill: Source to be determined by the contractor**
- **Area to be resurfaced with gravel (equal total disturbed) 14,000 ft<sup>2</sup>**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

**Erosion could occur during excavation activities and/or while soil is stockpiled for transportation to the disposal facility.**

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

**If the maximum area (14,800 ft<sup>2</sup>) is disturbed approximately 30% of the site will remain undisturbed and covered with asphalt or buildings. The remaining 70% of the area will be finished with gravel cover.**

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

**The excavation work is planned for mid-August through end of September 2022. This period is typically free of significant rainfall and the lack of rainfall will reduce and control erosion.**

**Catch basin protection will be installed in all catch basins located on the Site. Stockpiled soils will be placed on and covered with visqueen.**

## **2. Air** [\[help\]](#)

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

**Minimal dust and emissions from construction equipment will occur during construction.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**Appropriate dust control measures (e.g., soil wetting and/or application of Simple Green™ for odor control if needed) will be implemented during excavation activities. Vehicles and equipment will be equipped with emission control equipment.**

### **3. Water** [\[help\]](#)

- a. Surface Water: [\[help\]](#)

**The property is situated near a large barrier beach at the end of a peninsula that is surrounded by Grays Harbor (approximately 800 feet to the east) and the Pacific Ocean (approximately 0.8 miles to the west). Grays Harbor is the closest surface water body to the property. Based on the distance of the surface water bodies from the property and the lack of a surface water conduit, the Pacific Ocean and Grays Harbor will not be impacted by run-off from the property during construction.**

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

**No streams, saltwater, lakes, ponds or wetlands immediately adjacent to the property.**

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

**There are open stormwater ditches which are part of the City of Westport's stormwater system within 200 feet of the property. These ditches direct water to two stormwater retention ponds before eventually directing stormwater through a tide gate connected to tidelands adjacent to Grays Harbor. The location of these ditches are shown on a site plan (attached) to be submitted to the Department of Ecology as part of a submittal package to secure a Construction Stormwater General permit. Further details regarding treatment of water pumped to the stormwater ditch is provided in the answer to Question # 6 below.**

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

**Not applicable**

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

**The project involves excavating soils to a maximum depth of 12 feet throughout the property. Groundwater levels are at an approximate depth of 7 feet and will infiltrate the excavation. Groundwater entering the excavation will need to be pumped out of the excavation to facilitate soil removal. The water pumped from the excavation will be contaminated with gasoline. The contaminated water will be run through an on-site water treatment system equipped with a two-stage treatment system of activated carbon vessels to remove contamination before discharge to the City of Westport stormwater system. Samples of the treated groundwater will be collected from the discharge end of the treatment system and submitted for analysis. The treatment system is designed to remove over 99% of contaminants from the water and meet discharge levels suitable for acceptance to the City of Westport's stormwater system.**

**The total volume of groundwater to be removed and the pumping rate is currently being determined. Initial calculations indicate a flow rate of less than 100 gallons per minute.**

**A schematic figure of the water treatment system is attached and will be provided to the Department of Ecology in a submittal to secure a Construction Stormwater Discharge permit.**

b. Ground Water: [\[help\]](#)

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

**No – groundwater will not be withdrawn for drinking water or other purposes.  
No water will be discharged to groundwater.**

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . .; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

**None**

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

**Runoff is directed to two on-site catch basins situated on the north side of the property near Wilson Avenue. Prior to excavation activities a catch basin bag filter will be placed in each catch basin. Water within the catch basin flows to the City of Westport Stormwater system consisting of open ditches running along Montesano Street and Wilson Avenue.**

2) Could waste materials enter ground or surface waters? If so, generally describe.

**No – the pumped groundwater will be treated.**

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

**No – the open stormwater ditches are designed to accept the currently estimated flow volume of less than 100 gallons per minute pumped from the excavation.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

**Excavation may be completed in sections approximately 40' by 40' if needed to limit the dewatering flow rate.**

**Excavation is planned for mid-August 2022, this is a the 'dry season' when groundwater is typically at its lowest level. As a result, less groundwater will require removal than if the excavation was implemented during a wetter period.**

**There will less surface and runoff water to manage because of lack of rainfall in August.**

#### 4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation (weeds)

**The entire site is covered with either buildings, concrete or asphalt. There are no planters or vegetated landscaping. Any vegetation is at the edges of the property.**

b. What kind and amount of vegetation will be removed or altered?

**Project activity will be limited to paved and gravel lot areas. No vegetation on or near the site will be removed.**

c. List threatened and endangered species known to be on or near the site.

**A review of the USFWS IPaC resource list report for the site and the Washington Department of Natural Resources' Washington Natural Heritage Program Element Occurrences GIS Open Data**

**( <https://data-wadnr.opendata.arcgis.com/datasets/washington-natural-heritage-program-element-occurrences-current/explore> )**

**indicates no federally listed plant species on or near the site.**

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

**Because the project activities will be conducted in paved and gravel lot areas, no vegetation will be disturbed, and no additional landscaping will be conducted.**

- e. List all noxious weeds and invasive species known to be on or near the site.

**On the parcel: Field bindweed, Himalayan blackberry (both Class C)**

**In adjacent parcels: Scotch broom, Reed canary grass (both Class C)**

## **5. Animals** [\[help\]](#)

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

**Birds: Various nearby local waterfowl and shorebirds, Bald Eagles, various songbirds (sparrows, towhees, robins, juncos, finches) Mammals: raccoons, gray squirrels.**

**Fish: none, Project Site is 1,000 feet from Grays Harbor waters.**

- b. List any threatened and endangered species known to be on or near the site.

**Review of the USFWS IPaC resource list report for the site indicates the following federally listed species to be potentially present within the Project Area: Marbled Murrelet, Streaked Horned Lark, Western Snowy Plover, Yellow-billed Cuckoo, Bull Trout, and Oregon Silverspot Butterfly. A review of the WDF&W PHS website indicated there are no Priority Habitats for these species at this Site location.**

- **Murrelets** nest in forested stands varying in size from several acres to thousands of acres. However, larger, unfragmented stands of old growth appear to be the highest quality habitat for marbled murrelet nesting. Forested habitat is not present in Project Area, which is located in a commercial urban area. The nearest critical habitat is located approximately 7.75 miles southeast of the Project Area.
- **Streaked horned larks** breeding and nesting habitat consists of large expanses of grass-dominated habitat, such as airports or native prairies, with very few trees or woody shrubs. The Project Area does not offer this habitat. The nearest critical habitat is located approximately 3.5 miles north of the Project Area at Damon Point and Oyhut Wildlife Recreation Area.
- **Western Snowy Plovers** snowy plovers are found (in any season) on coastal beaches, sand spits, dune-backed beaches, and sparsely vegetated dunes. They nest on the ground on broad open beaches or salt or dry mud flats, where vegetation is sparse or absent. The Project area does not offer this habitat. The

nearest critical habitat is located approximately 3.5 miles north of the Project Area at Damon Point and Oyhut Wildlife Recreation Area.

- The **Western Yellow-Billed Cuckoo** nesting occurs almost exclusively in low to moderate elevation mature riparian woodlands dominated by cottonwoods and willows, covering 50 acres or more. Given these requirements, there is no suitable breeding habitat currently present or available within the proposed Project Area.
- **Bull Trout** are present in Grays Harbor waters. Bull trout utilize these waters for foraging, migration, and overwintering habitat. Approximately 143.0 km (88.8 mi) of nearshore marine habitat in Grays Harbor and 327 km (203.1 mi) of rivers draining into Grays Harbor are designated as critical habitat.
- **Oregon Silverspot Butterfly** populations are restricted to the immediate coast, centered around salt-spray meadows, or within a few miles of the coastline in similar meadow-type habitat. The Washington population is restricted to one small area on the Long Beach peninsula, where intensive searches have revealed few adult butterflies. The most recent surveys in 1991 found no butterflies. It is likely that there is no longer a viable population in Washington.

c. Is the site part of a migration route? If so, explain.

**Grays Harbor is located on the Pacific Flyway for migratory waterfowl. The project site offers no habitat for migrating birds. The USFSW IPaC resource list report for the site indicates that a number of migratory birds that occur on USFWS Birds of Conservation Concern and Bald and Golden Eagle Protection Act could be within the vicinity of the project location. These include: Bald Eagle, Black Oystercatcher, Black Turnstone, Clark's Grebe, Great Blue Heron, Lesser Yellowlegs, Long-billed Curlew, Marbled Godwit, Olive-sided Flycatcher, Red-throated Loon, Rufous Hummingbird, Semipalmated Sandpiper, Short-billed Dowitcher, Whimbrel, and Willet. Additionally, the state-listed American white pelican may also be found in the Grays Harbor area. These shorebird and marine species would be concentrated in the estuarine wetlands and salt marshes bordering the nearby South Bay (Elk River estuary) and along the jetties at the Mouth of Grays Harbor.**

d. Proposed measures to preserve or enhance wildlife, if any:

**Activities within the Site will be conducted in paved and gravel lot areas around building structures. No wildlife habitat is present on the site; therefore, no additional habitat preservation or enhancement will be conducted.**

e. List any invasive animal species known to be on or near the site.

**No invasive animal species are known to be on or near the site.**

## **6. Energy and Natural Resources** [\[help\]](#)

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**Gasoline and diesel will be required for the excavation and trucking equipment used**

during the demolition/removal of the convenience store, other structures and underground storage tanks (USTs). The area will be left as a level unpaved lot and will not require any additional energy needs.

- b. Would your project affect the potential use of solar energy by adjacent properties?  
If so, generally describe.

No

- c. What kinds of energy conservation features are included in the plans of this proposal?  
List other proposed measures to reduce or control energy impacts, if any:

**Construction vehicle idling will be minimized to reduce gasoline and diesel consumption.**

## **7. Environmental Health** [\[help\]](#)

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal?  
If so, describe.

**Fuel in the UST will be removed, and the tank will be triple rinsed and inerted prior to removal from the ground; environmental hazards associated with the tank will be minimal. The likelihood of a spill occurring during removal of the fuel from the USTs is remote. However, in the event that a spill occurs, the risk of fire/explosion will be minimized by use of safety controls such as: spill kits, the implementation of BMPs, and the presence of a vacuum truck to vacuum spilled contents. Stantec will be on-site to monitor vapors with a photoionization detector (PID). When the PID readings indicate soil impacted with petroleum is encountered, Stantec will direct staff and contractors on the appropriate action and will comply with company, City, State, and Federal health and safety and reporting protocols. Soil impacted with petroleum will either be placed directly in trucks and hauled for off-site disposal at a facility authorized and permitted to receive such wastes or placed on and under visqueen plastic sheeting to prevent material from being washed into storm drains by rain or wind.**

**It is anticipated that groundwater impacted with petroleum hydrocarbons will be encountered. This groundwater will be pumped from the excavation and through a treatment system designed to remove contaminants before discharge to the City of Westport Stormwater system. Section 3 of this application describes the treatment system.**

- 1) Describe any known or possible contamination at the site from present or past uses.

**Subsurface soil and groundwater are impacted with petroleum hydrocarbons as a result of a historical release from the former UST(s). The release(s) appears to have occurred in 1986 when approximately 2,000 gallons of gasoline were released from a leaking product line. The horizontal extent of impacted soil and groundwater is throughout the site, the vertical extent of impacted soils varies throughout the site and is encountered from a depth of approximately 2 feet below ground surface to an approximate depth of 12 feet. Figure 4 and Figure 6 (both attached) show the extent of soil and groundwater contamination.**

**A detailed summary of the environmental history of the Site is provided in the following document (publicly available on The Department of Ecology's Clean-up Site List):**

**Most recent environmental information is located in these reports:**

- **Remedial Investigation and Feasibility Study (RIFS) The Hungry Whale dated April 22, 2020**
  - **Draft Clean up Action Plan (dCAP) The Hungry Whale submitted on July 15, 2021**
- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

**Asbestos: A pre-demolition asbestos survey was recently completed by a certified hazardous materials inspector. The survey identified asbestos containing material (ACM) in the flooring of the convenience store. A plan for removal and disposal of the identified materials will be submitted to Olympic Regional Clean Air Authority along with the demolition permit application.**

**They survey included testing for lead, which was not found in any of the samples taken and analyzed.**

**The existing fueling system consists of one 20,000-gallon UST with three compartments (10,000-gallon gasoline, 6,000-gallon gasoline and 4,000-gallon diesel).**

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

**As described above the site stores gasoline and diesel in separate compartments in a 20,000-gallon UST.**

- 4) Describe special emergency services that might be required.

**The Westport Fire Department will be notified prior to removal of the UST.**

- 5) Proposed measures to reduce or control environmental health hazards, if any:

**Proper fuel transfer methods will be used during removal of tank contents. Tank removal will be supervised by an ICC-certified UST Supervisor and tanks will be inerted and certified as safe for removal**

*b. Noise*

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

**Noise in the area includes street traffic, which will not affect the project**

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)?  
Indicate what hours noise would come from the site.

**Short-term noise from construction equipment will occur between the hours of 7:00 am and 6:00 pm and will cease at the completion of the project.**

- 3) Proposed measures to reduce or control noise impacts, if any:

**Construction equipment will be equipped with appropriate muffler devices to limit noise, and equipment will not remain at idle unnecessarily**

## **8. Land and Shoreline Use** [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

**The site is bound by:**

- **East/Northeast: A vacant restaurant with vacant land adjacent.**
- **North/Northeast: Wilson Avenue with vacant land to the northeast and Westport Shipyards further to the northwest.**
- **West/Northwest: Northwest and across the intersection of Montesano Street and Wilson Avenue is the 79-acre open space Westhaven State Park. West there is Montesano Street and across the street Englund Marine and Industrial Supply. Further northwest is an RV park**
- **South/Southwest: Vacant land followed by a former go-cart track and then further south Ocean Cold LLC (a cold storage seafood warehouse)**

**These adjacent parcels should not be affected by the short-term nature of proposed work at the site.**

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

**The site was vacant undeveloped land before being developed into a gas station/convenience store in 1976. The site is currently paved commercial land.**

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

**No**

c. Describe any structures on the site.

**All areas are approximate. There is a 2,000 square foot convenience store, a 3,000 square foot storage building, a 1,500 square foot residence and a 400 square foot canopy.**

d. Will any structures be demolished? If so, what?

**The convenience store and canopy are the only structures currently designated for demolition.**

e. What is the current zoning classification of the site?

**Mixed-Use Tourist Commercial 1 (MUTC-1)**

f. What is the current comprehensive plan designation of the site?

**Mixed-Use Tourist Commercial 1 (MUTC-1)**

g. If applicable, what is the current shoreline master program designation of the site?

**The Project Site area is outside of the City of Westport Shoreline Master Program designated shorelines. The site is approximately 700 feet from the High Intensity Shoreline to the northeast, and 750 feet from the High Intensity Shoreline to the southeast.**

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.  
**The Project Site is not classified as a critical area by the City of Westport or Grays Harbor county. The nearest critical area is a wetland area approximately 415 feet to the west in Westport Light State Park.**

i. Approximately how many people would reside or work in the completed project?

**None. Redevelopment plans for the site have not yet been proposed.**

j. Approximately how many people would the completed project displace?

**Up to ten people (part-time and full-time). People working at the convenience store may be offered employment at other businesses operated by the current leaseholder or future developer.**

k. Proposed measures to avoid or reduce displacement impacts, if any:

**The purpose of the project is to remediate the site by removing contamination to prevent impacts to human health and the environment. This action is required by the Department of Ecology through an Agreed Order between the Port of Grays Harbor and Ecology.**

**Remedial action to comply with the Order requires removal of the facilities and displacement impacts cannot be avoided.**

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

**Project is consistent with zoning (Mixed Use Tourist Commercial 1). The remedial excavation will result in a property suitable for redevelopment compatible with the current zoning.**

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

**No agricultural and forest lands in the vicinity.**

### **9. Housing** [\[help\]](#)

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

**Not applicable, the proposed project does not create any new housing on the commercially developed lot.**

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

**N/A**

c. Proposed measures to reduce or control housing impacts, if any:

**N/A**

### **10. Aesthetics** [\[help\]](#)

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

**The site will be completed as a level unpaved lot.**

b. What views in the immediate vicinity would be altered or obstructed?

**None**

b. Proposed measures to reduce or control aesthetic impacts, if any:

**The site will be fenced to prevent dumping or accumulation of debris.**

### **11. Light and Glare** [\[help\]](#)

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

N/A

b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

c. What existing off-site sources of light or glare may affect your proposal?

N/A

d. Proposed measures to reduce or control light and glare impacts, if any:

N/A

## 12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity?

**There is a boat launch situated approximately 500 feet northeast of the site. It is accessed by Wilson Ave.**

b. Would the proposed project displace any existing recreational uses? If so, describe.

No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

**No recreational opportunities will be displaced by the project**

## 13. Historic and cultural preservation [\[help\]](#)

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

No

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

**A Draft Department of Ecology Inadvertent Discovery Plan (IDP) has been completed and submitted to Ecology for review. As part of the submittal, a record search was conducted by an archaeologist who determined that no archaeological sites, NRHP or State register properties, cemeteries, or TCPs have been previously reported on or adjacent to the property and that the existing buildings or structures on or adjacent to the parcel have not been inventoried. One maritime resource polygon encompasses the area, but there**

were no associated records identified during the search. The nearest surveys (1691547 and 1347428) yielded no identified resources.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

**A Department of Ecology formal Cultural Resource Review (Executive 05-05 or Section 106) was completed and a Draft Inadvertent Discovery Plan has been submitted to Ecology. The Draft IDP provides the names of tribes requiring consultation and specifies procedures to perform in the event of a discovery of archaeological materials or human remains, in accordance with applicable state and federal laws. Once finalized, the IDP will be kept at the project site during all project activities. All staff and contractors, will be familiar with its contents and know where to find it**

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

**No permits are required. The Draft IDP provides measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources.**

#### **14. Transportation** [\[help\]](#)

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

**Access to the property is via either Montesano Street or Wilson Avenue as shown on Figure 2 (attached).**

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

**Grays Harbor Transit operates a bus service in the area. There are no transit stops within at least 0.5 miles of the site.**

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

**The site will be left as an unpaved open lot ready for development. The current parking spaces will be eliminated but not needed as no facilities will remain after completion.**

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

**No**

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

**No**

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would

be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

**No vehicular trips generated by completed project – vacant unpaved lot.**

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

**No**

i. Proposed measures to reduce or control transportation impacts, if any:

**Do not anticipate transportation impacts therefore no proposed measures.**

**15. Public Services** [\[help\]](#)

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

**No**

b. Proposed measures to reduce or control direct impacts on public services, if any.

**N/A**

**16. Utilities** [\[help\]](#)

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other \_\_\_\_\_

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

**No new utilities are proposed. The planned work includes removing the 20,000-gallon UST, convenience store, product lines, vent lines, dispensers, and canopy.**

**C. Signature** [\[HELP\]](#)

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  \_\_\_\_\_

Name of signee Randy D. Lewis \_\_\_\_\_

Position and Agency/Organization Director of Environmental & Engineering Services

Date Submitted: July 15, 2021



STATE OF WASHINGTON  
**DEPARTMENT OF ECOLOGY**

PO Box 47600, Olympia, WA 98504-7600 • 360-407-6000

April 18, 2023

Gary Nelson  
Port of Grays Harbor, Washington  
PO Box 660  
Aberdeen, WA 98520

**RE: Coverage under the Construction Stormwater General Permit (CSWGP)**

**Permit number:** WAR312143  
**Site Name:** Hungry Whale Grocery  
**Location:** 1680 North Montesano St  
Westport County: Grays Harbor  
**Disturbed Acres:** 0.34

Dear Gary Nelson:

The Washington State Department of Ecology (Ecology) received your Notice of Intent for coverage under Ecology's Construction Stormwater General Permit (CSWGP). This is your permit coverage letter. Your permit coverage is effective April 18, 2023.

Retain this letter as an official record of permit coverage for your site. You may keep your records in electronic format if you can easily access them from your construction site. You can get the CSWGP, permit forms, and other information at Ecology's [CSWGP eCoverage Packet webpage](#)<sup>1</sup>. Contact your Permit Administrator, listed below, if you want a copy of the CSWGP mailed to you. Please read the permit and contact Ecology if you have any questions.

#### **Additional Monitoring**

Please refer to the attached Administrative Order, number 21690, for additional monitoring requirements.

#### **Electronic Discharge Monitoring Reports (WQWebDMR)**

This permit requires you to submit monthly discharge monitoring reports (DMRs) for the full duration of permit coverage (from first full month of coverage to termination). Your first sampling and reporting period will be for the month of **May** and your first DMR must be submitted by **June 15, 2023**. You must submit DMRs electronically using Ecology's secure online

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<sup>1</sup> <http://www.ecology.wa.gov/eCoverage-packet>

Gary Nelson  
April 18, 2023  
Page 2

system, WQWebDMR. To sign up for WQWebDMR go to Ecology's [WQWebPortal guidance webpage](#)<sup>2</sup>. If you have questions, contact the portal staff at (360) 407-7097 (Olympia area), or (800) 633-6193/option 3, or email [WQWebPortal@ecy.wa.gov](mailto:WQWebPortal@ecy.wa.gov).

### **Appeal Process**

You have a right to appeal coverage under the general permit to the Pollution Control Hearing Board (PCHB). Appeals must be filed within 30 days of the date of receipt of this letter. Any appeal is limited to the general permit's applicability or non-applicability to a specific discharger. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2). For more information regarding your right to appeal, please reference Ecology's Focus Sheet: [Appeal of General Permit Coverage](#)<sup>3</sup>.

### **Annual Permit Fees**

RCW 90.48.465 requires Ecology to recover the costs of managing the permit program. Permit fees are invoiced annually until the permit is terminated. Termination conditions are described in the permit. For permit fee related questions, please contact the Water Quality Fee Unit at [wqfeeunit@ecy.wa.gov](mailto:wqfeeunit@ecy.wa.gov) or (800) 633-6193, Option 2.

### **Ecology Field Inspector Assistance**

If you have questions regarding stormwater management at your construction site, please contact your Regional Inspector, Evan Wood of Ecology's Southwest Regional Office in Lacey at [evan.wood@ecy.wa.gov](mailto:evan.wood@ecy.wa.gov), or (360) 706-4599.

### **Questions or Additional Information**

Ecology is here to help. Please review our [Construction Stormwater General Permit webpage](#)<sup>4</sup> for more information. If you have questions about the Construction Stormwater General Permit, please contact your Permit Administrator, Joyce Smith at [joyce.smith@ecy.wa.gov](mailto:joyce.smith@ecy.wa.gov), or (360) 628-2138.

Sincerely,



Jeff Killelea, Manager  
Program Development Services Section  
Water Quality Program

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<sup>2</sup> <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Water-quality-permits-guidance/WQWebPortal-guidance>

<sup>3</sup> <https://apps.ecology.wa.gov/publications/summarypages/1710007.html>

<sup>4</sup> [www.ecology.wa.gov/constructionstormwaterpermit](http://www.ecology.wa.gov/constructionstormwaterpermit)

**From:** [Wood, Evan \(ECY\)](#)  
**To:** [Sauze, Marc](#)  
**Subject:** FW: Hungry Whale Treatment System Review - Technical Memo: Request for Approval  
**Date:** Wednesday, July 12, 2023 2:15:22 PM  
**Attachments:** [~WRD3183.jpg](#)  
[Technical Memo - Hungry Whale Cleanup Dewatering System.pdf](#)

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Hey Marc,

The engineers had time to review you submitted memo and they have approved the treatment system, see previous email in this chain. Please keep a copy of this email approval for your records. Let me know when you get going out there so I can stop by and check it out. Let me know if you have any questions.

Thank you,

**Evan Wood** (He/Him)

Contaminated Construction Stormwater Inspector  
Department of Ecology | SW Regional Office | Water Quality Program  
(360) 706-4599 cell | Email [ewoo461@ecy.wa.gov](mailto:ewoo461@ecy.wa.gov)  
Tuesday-Friday 7:00 AM - 5:30 PM

---

**From:** Eberl, Steve (ECY) <SEBE461@ECY.WA.GOV>  
**Sent:** Wednesday, July 12, 2023 1:33 PM  
**To:** Wood, Evan (ECY) <ewoo461@ECY.WA.GOV>  
**Cc:** Diamant, John (ECY) <JDIA461@ECY.WA.GOV>; Moseley, Will J. (ECY) <wmos461@ECY.WA.GOV>  
**Subject:** FW: Hungry Whale Treatment System Review - Technical Memo: Request for Approval

Good afternoon Evan,

I reviewed the attached technical memo dated July 7, 2023, submitted by Stantec Consulting Services. The memo addresses the items I had questions on, and the proposed treatment system should be successful at meeting the Indicator levels in Table 1 of the administrative order.

Testing prior to discharge will confirm the Indicator levels are not exceeded and the system is anticipated to be completed in about three weeks. Please consider this email as my approval.

Steven G. Eberl, P.E.

Supervisor, Industrial Operations  
Water Quality Program Southwest Regional Office  
Washington State Department of Ecology  
(564) 999-3584 agency cell  
[sebe461@ecy.wa.gov](mailto:sebe461@ecy.wa.gov)

Washington Civil Engineer license No: 26772  
Expiration: 09-11-2023

---

**From:** Wood, Evan (ECY) <[ewoo461@ECY.WA.GOV](mailto:ewoo461@ECY.WA.GOV)>  
**Sent:** Wednesday, July 12, 2023 8:43 AM  
**To:** Moseley, Will J. (ECY) <[wmos461@ECY.WA.GOV](mailto:wmos461@ECY.WA.GOV)>  
**Cc:** Diamant, John (ECY) <[JDIA461@ECY.WA.GOV](mailto:JDIA461@ECY.WA.GOV)>; Eberl, Steve (ECY) <[SEBE461@ECY.WA.GOV](mailto:SEBE461@ECY.WA.GOV)>  
**Subject:** FW: Hungry Whale Treatment System Review - Technical Memo: Request for Approval

Good Morning Engineer Team,

My permittee at the Hungry Whale got back to me with a technical memo that hopefully answers the questions you had. Please look this over when you get a chance and let me know if there is anything else that we will need from them in order to approve this temporary treatment system. If we have more back and forth that needs to happen I can schedule a meeting with all of us so we can get on the same page. Let me know how you would like to proceed. Thank you for helping me with this!

**Evan Wood** (He/Him)  
Contaminated Construction Stormwater Inspector  
Department of Ecology | SW Regional Office | Water Quality Program  
(360) 706-4599 cell | Email [ewoo461@ecy.wa.gov](mailto:ewoo461@ecy.wa.gov)  
Tuesday-Friday 7:00 AM - 5:30 PM

---

**From:** Sauze, Marc <[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)>  
**Sent:** Friday, July 7, 2023 8:38 AM  
**To:** Wood, Evan (ECY) <[ewoo461@ECY.WA.GOV](mailto:ewoo461@ECY.WA.GOV)>  
**Cc:** Aaron Aschim <[aaschim@portgrays.org](mailto:aaschim@portgrays.org)>; David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>; Pentzke, Marta <[Marta.Pentzke@stantec.com](mailto:Marta.Pentzke@stantec.com)>; rlewis <[rlewis@portgrays.org](mailto:rlewis@portgrays.org)>

**Subject:** RE: Hungry Whale Treatment System Review - Technical Memo: Request for Approval

Hello Evan,

We've prepared the attached Technical Memo to address all of Ecology Engineer's comments and questions regarding the Hungry Whale Cleanup Dewatering System provided in the 06/21/2023 e-mail below.

As detailed in the Technical Memo, the temporary dewatering system will operate for approximately 3 weeks and we estimate a total treatment volume of 60,000 gallons. The system includes a discharge holding tank from which we will collect a sample before discharge to the storm system – there will be no discharge of effluent containing contaminant concentrations above limits in the Administrative Order.

Contractor mobilization is scheduled for 07/24/2023, we're requesting your timely approval to allow time to procure equipment.

Please contact me if you have any questions or comments.

Thanks for your help with this.

**Marc Sauze PE**

Principal Engineer

425-894-2329

[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)

**Stantec**

1687 114 Ave SE Suite 100

Bellevue WA 98004



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**From:** Wood, Evan (ECY) <[ewoo461@ECY.WA.GOV](mailto:ewoo461@ECY.WA.GOV)>

**Sent:** Wednesday, June 21, 2023 7:37 AM

**To:** Sauze, Marc <[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)>

**Subject:** Hungry Whale Treatment System Review

Good Morning Marc,

I have heard back from Doug Howie and apparently I was incorrect in thinking that he managed treatment systems like the one needed for this project. I reached out to the appropriate engineers and they compiled a list of things that they will need in order to approve the system. Below are the comments from our engineers:

The proposed treatment system is typical for cleanup sites containing petroleum contamination, using two activated carbon vessels in series, as the primary removal of hydrocarbons. The schematic by itself is not an engineering report. It does not provide the data I would need to thoroughly evaluate the system to attain the AO Table 1 indicator levels specified:

- Influent characterization, specifically for the BETX, TPH-D, TPH-G, and Naphthalene
- Expected average and maximum flow rates thru the system
- Size and flowrate capacity data for the bag filtration and activated carbon adsorption vessels
- How will pre-carbon filtration unit be checked for blinding and headloss changes
- Expected effluent concentrations and expected percent removals of key constituents

The system does not provide a treated effluent storage tank following activated carbon, to hold a batch and test to confirm the discharge meets the Table 1 indicator levels before discharge. If they added a post treatment holding tank and can sample before discharge that would provide us added assurance the AO limits will be met.

How long is the expected time period the system will be in place (days, weeks, months?). I don't recall us (the Industrial unit) reviewing treatment system proposals for these contaminated CSGP sites in the past. The AO as written appears effective as a self-implementing compliance assurance program (sample and confirm compliance prior to discharge).

Additionally:

We need more than just a conceptual plan drawing. They could probably submit a paired down engineering report (like a technical memo) but we need more details and it must be stamped by a PE.

- Preliminary construction drawings would be helpful to show how it will laid out, and where everything is located.

How many units are they thinking?

- Will there be redundancy?
- It's important to know the contaminant pollutant concentrations to be able to assess if carbon filtration (and how much carbon) will be sufficient.
- Flows/volumes are also important here to know how big (or many) units are needed.  
How long will the project last?
- The ER should include a schedule for construction of the treatment system and the dewatering project.
- I also agree they should have an effluent tank for holding each batch as per the AO.

Please feel free to let me know if you have any questions for either myself or the engineers. I will forward anything that you need from them.

Thank you,

Evan Wood (He/Him)

Contaminated Construction Stormwater Inspector  
Department of Ecology | SW Regional Office | Water Quality Program  
(360) 706-4599 cell | Email [ewoo461@ecy.wa.gov](mailto:ewoo461@ecy.wa.gov)  
Tuesday-Friday 7:00 AM - 5:30 PM

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**Atención:** Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.



# 30-DAY NOTICE

## FOR UNDERGROUND STORAGE TANK SYSTEMS

UST ID #: 3488  
County: Grays Harbor

*This form provides Ecology 30-days' advanced notice for projects, as required by Chapter 173-360A WAC. Instructions are on the back page.*

Please ✓ the appropriate box:     Intent to Install     Intent to Close     Change-in-Service

| I. SITE INFORMATION  |               |                  | II. OWNER/OPERATOR INFORMATION            |                   |                                   |  |
|--|---------------|------------------|---|-------------------|-----------------------------------|--|
| Tag or UBI # (if applicable): A5021  |               |                  | Owner/Operator Name: Port of Grays Harbor |                   |                                   |  |
| UST ID # (if applicable): 3488   |               |                  | Business Name: Port of Grays Harbor       |                   |                                   |  |
| Site Name: Hungry Whale Mini Mart  |               |                  | Mailing Address: PO Box 660               |                   |                                   |  |
| Site Address: 1680 N Montesano Street  |               |                  | City: Aberdeen                            | State: WA         | Zip: 98520                        |  |
| City: Westport   |               |                  | Phone: 360-533-9518                       |                   |                                   |  |
| Phone: 360-533-9518  |               |                  | Email: aaschim@portgrays.org              |                   |                                   |  |
| III. CERTIFIED SERVICE PROVIDER(S)   |               |                  |   |                   |                                   |  |
| Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.                                 |               |                  |   |                   |                                   |  |
| <b>Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.</b> |               |                  |   |                   |                                   |  |
| 1) <input type="checkbox"/> Installer <input checked="" type="checkbox"/> Decommissioner <input type="checkbox"/> Site Assessor                      |               |                  |   |                   |                                   |  |
| Company Name: Anderson Environmental Contracting LLC   |               |                  | Certification Type: UST Decommissioning   |                   |                                   |  |
| Service Provider Name: David Walker  |               |                  | Cert. No.: 8159957                        | Exp. Date: 8/3/24 |                                   |  |
| Provider Phone: 360-577-9194   |               |                  | Provider Email: davidw@aecllc.net         |                   |                                   |  |
| 2) <input type="checkbox"/> Installer <input checked="" type="checkbox"/> Decommissioner <input type="checkbox"/> Site Assessor                      |               |                  |   |                   |                                   |  |
| Company Name: Anderson Environmental Contracting LLC   |               |                  | Certification Type: UST Decommissioning   |                   |                                   |  |
| Service Provider Name: Kyle Johnson  |               |                  | Cert. No.: 10286368                       | Exp. Date: 4/4/25 |                                   |  |
| Provider Phone: 360-577-9194   |               |                  | Provider Email: kylej@aecllc.net          |                   |                                   |  |
| IV. TANK AND/OR PIPING INFORMATION   |               |                  |   |                   |                                   |  |
| TANK ID  | TANK CAPACITY | SUBSTANCE STORED | PIPING                                    |                   | DATE PROJECT IS EXPECTED TO BEGIN | COMMENTS                                     |
|  |               |                  | INSTALLATION OR REPLACEMENT ONLY (Y/N)    |                   |                                   |  |
| 1-20000  | 10,000        | Unleaded         |   |                   | 7/24/2023                         | 1-20000 is one tank with three compartments. |
|  | 6,000         | Unleaded         |   |                   |                                   |  |
|  | 4,000         | Diesel           |   |                   |                                   |  |
|  |               |                  |   |                   |                                   |  |
|  |               |                  |   |                   |                                   |  |

**shestag, carol**

---

**From:** David Walker <davidw@aecllc.net>  
**Sent:** Tuesday, August 8, 2023 9:32 AM  
**To:** aaschim@portgrays.org  
**Cc:** Sauze, Marc  
**Subject:** FW: 30 Day Notice - Hungry Whale UST Removal  
**Attachments:** 30 Day Notice.pdf

Aaron,

Just keeping you in the loop, we intend to remove the 20,000-gallon UST on Friday.

Also for your records the previously decommissioned tank that was removed measured approximately 27' x 8' making it a 10,000 gallon tank and not a 6,000 gallon tank as suspected in the plans/specs.

**David Walker** | Sr. Project Manager  
Anderson Environmental Contracting, LLC  
C: 503.351.0150 | O: 360.577.9194

---

**From:** David Walker  
**Sent:** Tuesday, August 8, 2023 9:08 AM  
**To:** Mimnaugh, Dustin (ECY) <dmim461@ECY.WA.GOV>; Kari Kaiser <karik@aecllc.net>  
**Cc:** Sweitzer, Lisa (ECY) <lswe461@ECY.WA.GOV>; Jason Genn <JasonG@aecllc.net>; Steve Anderson <stevea@aecllc.net>  
**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Dustin,

Please take this email as our 3-day notice for the removal of the 20,000-gallon tank in Westport, WA at the Hungry Whale project site. We anticipate removing the tank from the remedial excavation area on Friday 8-11-23.

**David Walker** | Sr. Project Manager  
Anderson Environmental Contracting, LLC  
C: 503.351.0150 | O: 360.577.9194

---

**From:** Mimnaugh, Dustin (ECY) <[dmim461@ECY.WA.GOV](mailto:dmim461@ECY.WA.GOV)>  
**Sent:** Tuesday, August 1, 2023 5:03 PM  
**To:** David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>; Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ECY.WA.GOV](mailto:lswe461@ECY.WA.GOV)>  
**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Hi David,

Thank you for the great status update. A couple of us who hoped to witness the removal could no longer make it this week so I'm happy to hear the date has been pushed. Thanks again.

V/r  
Dustin

Dustin Mimnaugh  
He/Him

Underground Storage Tank Inspector  
Toxics Cleanup Program  
Southwestern Regional Office  
Washington State Department of Ecology  
Work Cell: (360) 819-7692  
E-mail: [dmim461@ecy.wa.gov](mailto:dmim461@ecy.wa.gov)

---

**From:** David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>  
**Sent:** Tuesday, August 1, 2023 4:56 PM  
**To:** Mimnaugh, Dustin (ECY) <[dmim461@ECY.WA.GOV](mailto:dmim461@ECY.WA.GOV)>; Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ECY.WA.GOV](mailto:lswe461@ECY.WA.GOV)>  
**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Dustin,

We just completed the demo and are prepping for some of the soil removal, we don't anticipate removing the UST until we get our remedial efforts closer to that portion of the site. I will make sure to provide you an update as we get closer to removal of the tank. The dispensers were removed before we arrived onsite but we purged the lines back to the tank and cleared the dispenser sumps. Tank appears to have 7" or so of product in the tank at the moment.

Thanks,

**David Walker** | Sr. Project Manager  
Anderson Environmental Contracting, LLC  
C: 503.351.0150 | O: 360.577.9194

---

**From:** Mimnaugh, Dustin (ECY) <[dmim461@ECY.WA.GOV](mailto:dmim461@ECY.WA.GOV)>  
**Sent:** Tuesday, August 1, 2023 4:49 PM  
**To:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ECY.WA.GOV](mailto:lswe461@ECY.WA.GOV)>; David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>  
**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Hi Kari,

I hadn't seen the 3-day notice for the tank removal tentatively scheduled for tomorrow. Do you know if that is still the plan or had the removal been pushed to a later date? Thank you.

V/r  
Dustin

Dustin Mimnaugh  
He/Him  
Underground Storage Tank Inspector  
Toxics Cleanup Program  
Southwestern Regional Office  
Washington State Department of Ecology  
Work Cell: (360) 819-7692  
E-mail: [dmim461@ecy.wa.gov](mailto:dmim461@ecy.wa.gov)

---

**From:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Sent:** Friday, June 30, 2023 1:40 PM  
**To:** Mimnaugh, Dustin (ECY) <[dmim461@ECY.WA.GOV](mailto:dmim461@ECY.WA.GOV)>

**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ecy.wa.gov](mailto:lswe461@ecy.wa.gov)>; David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>

**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Hi Dustin,

Thank you for the information. I will keep you posted on the schedule and make sure the 3 day notice is given.

Have a great 4<sup>th</sup> of July holiday.

**Kari Kaiser** | Project Coordinator  
Anderson Environmental Contracting, LLC  
O: 360.577.9194 | D: 360.703.6515 | F: 360.577.9198  
[karik@aecllc.net](mailto:karik@aecllc.net) | [www.aecllc.net](http://www.aecllc.net)



---

**From:** Mimnaugh, Dustin (ECY) <[dmim461@ecy.wa.gov](mailto:dmim461@ecy.wa.gov)>

**Sent:** Thursday, June 29, 2023 5:07 PM

**To:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>

**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ecy.wa.gov](mailto:lswe461@ecy.wa.gov)>

**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Hi Kari,

I just wanted to clarify that we will not require a Site Assessment Report for this UST removal. We require a Site Assessment report with most UST removals but as this site is already a formal site which is already in the Cleanup-Construction phase we do not require one. Instead a different report will be later submitted to the Ecology Site Manager as the cleanup progresses.

We do still need a 3-day notice for when the final removal date is confirmed. Please keep us updated with any new developments or changes. Thank you.

V/r  
Dustin

Dustin Mimnaugh  
He/Him  
Underground Storage Tank Inspector  
Toxics Cleanup Program  
Southwestern Regional Office  
Washington State Department of Ecology  
Work Cell: (360) 819-7692  
E-mail: [dmim461@ecy.wa.gov](mailto:dmim461@ecy.wa.gov)

---

**From:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>

**Sent:** Friday, June 23, 2023 10:06 AM

**To:** Mimnaugh, Dustin (ECY) <[dmim461@ecy.wa.gov](mailto:dmim461@ecy.wa.gov)>

**Cc:** Sweitzer, Lisa (ECY) <[lswe461@ecy.wa.gov](mailto:lswe461@ecy.wa.gov)>

**Subject:** RE: 30 Day Notice - Hungry Whale UST Removal

Good morning Dustin,

Our approximate removal date will be August 2<sup>nd</sup> so I'll make sure to contact you prior for the three day notice and to set up the site assessment.

Since this is a cleanup site we are anticipating there to be contamination.

Please let me know if you need additional information.

Thank you,

**Kari Kaiser** | Project Coordinator  
Anderson Environmental Contracting, LLC  
O: 360.577.9194 | D: 360.703.6515 | F: 360.577.9198  
[karik@aecllc.net](mailto:karik@aecllc.net) | [www.aecllc.net](http://www.aecllc.net)



---

**From:** Manning, Brett (ECY) <[bman461@ECY.WA.GOV](mailto:bman461@ECY.WA.GOV)>  
**Sent:** Wednesday, June 21, 2023 3:47 PM  
**To:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Cc:** Mimnaugh, Dustin (ECY) <[dmim461@ECY.WA.GOV](mailto:dmim461@ECY.WA.GOV)>; Sweitzer, Lisa (ECY) <[lswe461@ECY.WA.GOV](mailto:lswe461@ECY.WA.GOV)>  
**Subject:** FW: 30 Day Notice - Hungry Whale UST Removal

Hi Kari,

Please work with Dustin Mimnaugh, Ecology (360) 819-7692 on this. We're gonna need a site assessor and a three day notice for this as well.

Thanks,

Brett Manning  
Department of Ecology  
Underground Storage Tank Section  
Cell (360) 790-3524

---

**From:** Kari Kaiser <[karik@aecllc.net](mailto:karik@aecllc.net)>  
**Sent:** Wednesday, June 21, 2023 3:30 PM  
**To:** Manning, Brett (ECY) <[bman461@ECY.WA.GOV](mailto:bman461@ECY.WA.GOV)>  
**Subject:** 30 Day Notice - Hungry Whale UST Removal

Good afternoon Brett,

I've attached the 30 Day Notice for Port of Grays Harbor Hungry Whale site located at 16820 N Montesano Street – Westport, WA for your review and approval.

Please let me know if I need to submit this to someone else.

Thank you, I appreciate your help.

**Kari Kaiser** | Project Coordinator  
Anderson Environmental Contracting, LLC

O: 360.577.9194 | D: 360.703.6515 | F: 360.577.9198

[karik@aecllc.net](mailto:karik@aecllc.net) | [www.aecllc.net](http://www.aecllc.net)



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# APPENDIX C

## Groundwater Monitoring Wells: Abandonment Approvals and Driller Logs



# Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

## Type of Work:

- Construction  
 Decommission ⇒ Original NOI No. R065122

Ecology Well ID Tag No. AKF-194

Site Well Name MW-02

Consulting Firm AEC

Was a variance approved for this well/boring?  Yes  No

If yes, what was the variance for? \_\_\_\_\_

**WELL CONSTRUCTION CERTIFICATION:** I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

Driller  Trainee  Engineer

Name (Print Last, First Name) Phillips, Blake

Driller/Engineer/Trainee Signature Blake Phillips

License No. 3328

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number: \_\_\_\_\_

Sponsor's signature \_\_\_\_\_

Notice of Intent No. AE78911

## Type of Well:

- Resource Protection Well  Injection Point  
 Remediation Well  Grounding Well  
 Geotechnical Soil Boring  Ground Source Heat Pump  
 Environmental Boring  Other \_\_\_\_\_  
 Soil-  Vapor-  Water-sampling

Property Owner PORT OF GRAYS HARBOR

Well Street Address 1680 N MONTESANO ST.

City WESTPORT County GRAYS HARBOR

Tax Parcel No. 616120142001

Location (see instructions): WWM  or EWM

SE  $\frac{1}{4}$ - $\frac{1}{4}$  NE  $\frac{1}{4}$ , Section 1 Town 16N Range 12W

Latitude (Example: 47.12345) 46.90230

Longitude (Example: -120.12345) -124.10814

(WGS 84 Coordinate System)

Borehole diameter 4 inches Casing diameter 2 inches

Static water level \_\_\_\_\_ ft below top of casing Date \_\_\_\_\_

Above-ground completion with bollards  Flush monument

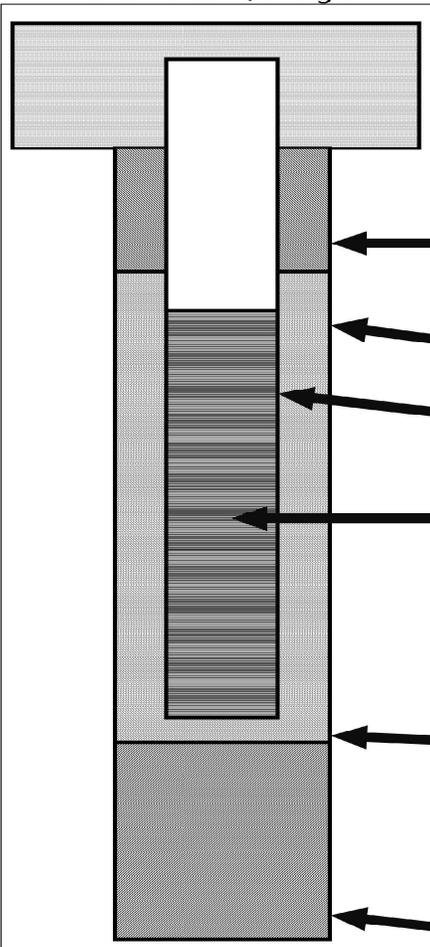
Stick-up of top of well casing \_\_\_\_\_ ft above ground surface

Start Date 07/27/2023 Completed Date 07/27/2023

## Construction/Design

## Well Data

## Formation Description

|  |                             |              |   |
|--|-----------------------------|--------------|---|
|  | Concrete Surface Seal Depth | _____ FT     | <p>1' - 13' _____ FT</p> <p>CHIP IN PLACE</p> <p>_____ FT</p> <p>_____ FT</p> |
|  | Blank Casing (dia x dep)    | _____        |   |
|  | Material                    | _____        |   |
|  | Backfill                    | 13' _____ FT |   |
|  | Type                        | CHIPS        |   |
|  | Seal                        | _____ FT     |   |
|  | Gravel Pack                 | _____ FT     |   |
|  | Material                    | _____        |   |
|  | Screen (dia x dep)          | _____ FT     |   |
|  | Slot Size                   | _____        |   |
| Material   | _____                       |              |   |
| Well Depth   | _____ FT                    |              |   |
| Backfill   | _____                       |              |   |
| Material   | _____                       |              |   |
| Total Hole Depth   | 13' _____ FT                |              |   |

# Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

## Type of Work:

- Construction  
 Decommission ⇒ Original NOI No. R065242

Ecology Well ID Tag No. ALN-595

Site Well Name MW-22

Consulting Firm AEC

Was a variance approved for this well/boring?  Yes  No

If yes, what was the variance for? \_\_\_\_\_

**WELL CONSTRUCTION CERTIFICATION:** I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

Driller  Trainee  Engineer

Name (Print Last, First Name) Phillips, Blake

Driller/Engineer/Trainee Signature Blake Phillips

License No. 3328

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number: \_\_\_\_\_

Sponsor's signature \_\_\_\_\_

Notice of Intent No. AE78911

## Type of Well:

- Resource Protection Well  Injection Point  
 Remediation Well  Grounding Well  
 Geotechnical Soil Boring  Ground Source Heat Pump  
 Environmental Boring  Other \_\_\_\_\_  
 Soil-  Vapor-  Water-sampling

Property Owner PORT OF GRAYS HARBOR

Well Street Address 1680 N MONTESANO ST.

City WESTPORT County GRAYS HARBOR

Tax Parcel No. 616120142001

Location (see instructions): WWM  or EWM

SE  $\frac{1}{4}$ - $\frac{1}{4}$  NE  $\frac{1}{4}$ , Section 1 Town 16N Range 12W

Latitude (Example: 47.12345) 46.90230

Longitude (Example: -120.12345) -124.10840

(WGS 84 Coordinate System)

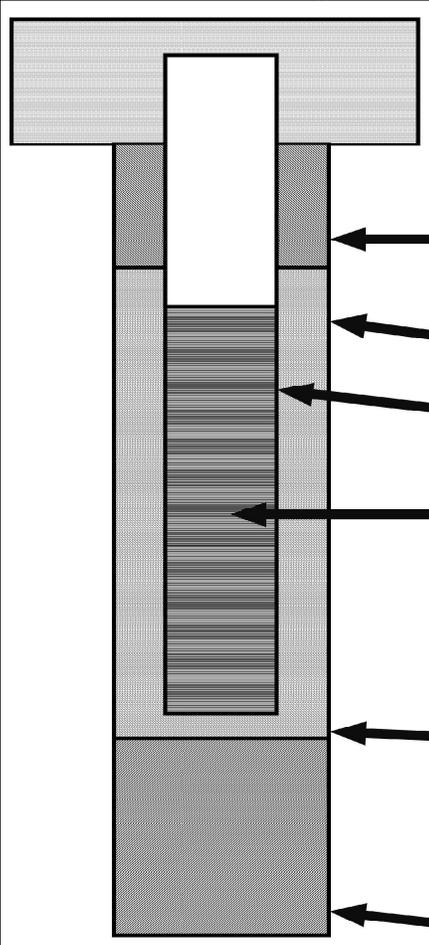
Borehole diameter 4 inches Casing diameter 2 inches

Static water level \_\_\_\_\_ ft below top of casing Date \_\_\_\_\_

Above-ground completion with bollards  Flush monument

Stick-up of top of well casing \_\_\_\_\_ ft above ground surface

Start Date 07/27/2023 Completed Date 07/27/2023

| Construction/Design  | Well Data                            | Formation Description |
|--|--------------------------------------|-----------------------|
|  | Concrete Surface Seal Depth _____ FT | <u>1' - 15'</u> FT    |
|  | Blank Casing (dia x dep) _____       | <b>CHIP IN PLACE</b>  |
|  | Material _____                       |                       |
|  | Backfill <u>15'</u> FT               |                       |
|  | Type <u>CHIPS</u>                    |                       |
|  | Seal _____ FT                        |                       |
|  | Gravel Pack _____ FT                 |                       |
|  | Material _____                       |                       |
|  | Screen (dia x dep) _____             |                       |
|  | Slot Size _____                      |                       |
| Material _____   |                                      |                       |
| Well Depth _____ FT  |                                      |                       |
| Backfill _____   |                                      |                       |
| Material _____   |                                      |                       |
| Total Hole Depth <u>15'</u> FT   |                                      |                       |

# Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

**Type of Work:**

- Construction  
 Decommission ⇒ Original NOI No. R065242

Ecology Well ID Tag No. ALN-851

Site Well Name MW-23

Consulting Firm AEC

Was a variance approved for this well/boring?  Yes  No

If yes, what was the variance for? \_\_\_\_\_

**WELL CONSTRUCTION CERTIFICATION:** I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

Driller  Trainee  Engineer

Name (Print Last, First Name) Phillips, Blake

Driller/Engineer/Trainee Signature Blake Phillips

License No. 3328

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number: \_\_\_\_\_

Sponsor's signature \_\_\_\_\_

Notice of Intent No. AE78911

**Type of Well:**

- Resource Protection Well  Injection Point  
 Remediation Well  Grounding Well  
 Geotechnical Soil Boring  Ground Source Heat Pump  
 Environmental Boring  Other \_\_\_\_\_  
 Soil-  Vapor-  Water-sampling

Property Owner PORT OF GRAYS HARBOR

Well Street Address 1680 N MONTESANO ST.

City WESTPORT County GRAYS HARBOR

Tax Parcel No. 616120142001

Location (see instructions): WWM  or EWM

SE  $\frac{1}{4}$ - $\frac{1}{4}$  NE  $\frac{1}{4}$ , Section 1 Town 16N Range 12W

Latitude (Example: 47.12345) 46.90238

Longitude (Example: -120.12345) -124.10823

(WGS 84 Coordinate System)

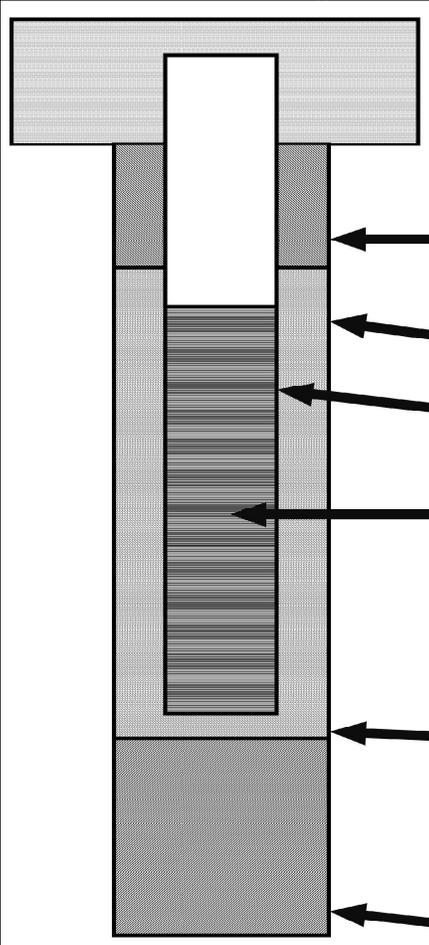
Borehole diameter 4 inches Casing diameter 2 inches

Static water level \_\_\_\_\_ ft below top of casing Date \_\_\_\_\_

Above-ground completion with bollards  Flush monument

Stick-up of top of well casing \_\_\_\_\_ ft above ground surface

Start Date 07/27/2023 Completed Date 07/27/2023

| Construction/Design  | Well Data                            | Formation Description |
|--|--------------------------------------|-----------------------|
|  | Concrete Surface Seal Depth _____ FT | <u>1' - 15'</u> FT    |
|  | Blank Casing (dia x dep) _____       | <b>CHIP IN PLACE</b>  |
|  | Material _____                       |                       |
|  | Backfill <u>15'</u> FT               |                       |
|  | Type <u>CHIPS</u>                    |                       |
|  | Seal _____ FT                        |                       |
|  | Gravel Pack _____ FT                 |                       |
|  | Material _____                       |                       |
|  | Screen (dia x dep) _____             |                       |
|  | Slot Size _____                      |                       |
| Material _____   |                                      |                       |
| Well Depth _____ FT  |                                      |                       |
| Backfill _____   |                                      |                       |
| Material _____   |                                      |                       |
| Total Hole Depth <u>15'</u> FT   |                                      |                       |

# Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

## Type of Work:

- Construction  
 Decommission ⇒ Original NOI No. R065242

Ecology Well ID Tag No. ALP-950

Site Well Name MW-20

Consulting Firm AEC

Was a variance approved for this well/boring?  Yes  No

If yes, what was the variance for? \_\_\_\_\_

**WELL CONSTRUCTION CERTIFICATION:** I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

Driller  Trainee  Engineer  
 Name (Print Last, First Name) Phillips, Blake  
 Driller/Engineer/Trainee Signature Blake Phillips  
 License No. 3328  
 Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number: \_\_\_\_\_

Sponsor's signature \_\_\_\_\_

Notice of Intent No. AE78911

## Type of Well:

- Resource Protection Well  Injection Point  
 Remediation Well  Grounding Well  
 Geotechnical Soil Boring  Ground Source Heat Pump  
 Environmental Boring  Other \_\_\_\_\_  
 Soil-  Vapor-  Water-sampling

Property Owner PORT OF GRAYS HARBOR

Well Street Address 1680 N MONTESANO ST.

City WESTPORT County GRAYS HARBOR

Tax Parcel No. 616120142001

Location (see instructions): WWM  or EWM

SE  $\frac{1}{4}$ - $\frac{1}{4}$  NE  $\frac{1}{4}$ , Section 1 Town 16N Range 12W

Latitude (Example: 47.12345) 46.90211

Longitude (Example: -120.12345) -124.10812

(WGS 84 Coordinate System)

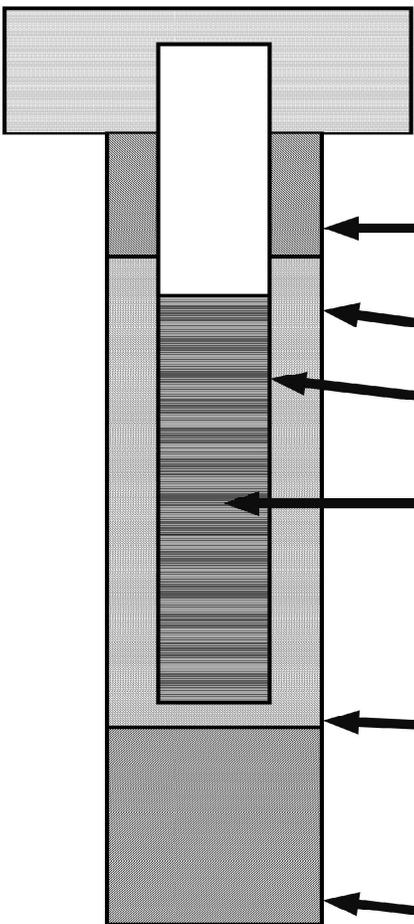
Borehole diameter 4 inches Casing diameter 2 inches

Static water level \_\_\_\_\_ ft below top of casing Date \_\_\_\_\_

Above-ground completion with bollards  Flush monument

Stick-up of top of well casing \_\_\_\_\_ ft above ground surface

Start Date 07/27/2023 Completed Date 07/27/2023

| Construction/Design  | Well Data                            | Formation Description |
|--|--------------------------------------|-----------------------|
|  | Concrete Surface Seal Depth _____ FT | <u>1' - 30'</u> FT    |
|  | Blank Casing (dia x dep) _____       | <b>CHIP IN PLACE</b>  |
|  | Material _____                       |                       |
|  | Backfill <u>30'</u> FT               |                       |
|  | Type <u>CHIPS</u>                    |                       |
|  | Seal _____ FT                        |                       |
|  | Gravel Pack _____ FT                 |                       |
|  | Material _____                       |                       |
|  | Screen (dia x dep) _____             |                       |
|  | Slot Size _____                      |                       |
| Material _____   |                                      |                       |
| Well Depth _____ FT  |                                      |                       |
| Backfill _____   |                                      |                       |
| Material _____   |                                      |                       |
| Total Hole Depth <u>30'</u> FT   |                                      |                       |

**From:** [Armocost, Zak](#)  
**To:** [Philip, Noel \(ECY\)](#)  
**Cc:** [Sauce, Marc](#); [davidw@secl.net](#)  
**Subject:** RE: Hungry Whale - Well Tags - follow up from our call today  
**Date:** Wednesday, July 26, 2023 6:15:04 PM  
**Attachments:** ~WRD001.jpg

---

Hi Noel,

Confirming that we are withdrawing the variance request. Thanks for your help!

**Zak Armocost**

Project Specialist, Geologist

Mobile: [+1 \(385\) 318-5030](tel:+13853185030)  
[zak.armocost@stantec.com](mailto:zak.armocost@stantec.com)

---

**From:** Philip, Noel (ECY) <[NPHI461@ECY.WA.GOV](mailto:NPHI461@ECY.WA.GOV)>  
**Sent:** Wednesday, July 26, 2023 2:40:13 PM  
**To:** Armocost, Zak <[Zak.Armocost@stantec.com](mailto:Zak.Armocost@stantec.com)>  
**Subject:** RE: Hungry Whale - Well Tags - follow up from our call today

Hi, Zak.

The variance to perform the decommissioning of resource protection wells at the Hungry Whale site is no longer necessary.

The disposition of the three wells has been verified, and there is no variant decommissioning required for well decommissioning compliant with the minimum standards. One well is no accessible (can't be located), possibly due to being paved over. Another has access and casing removal or perforation is planned because it will be completely removed as it is in the footprint of an excavation deeper than its total depth. Ecology has a report for the third well, so the method in WAC 173-160-460(2) is adequate to decommission the well.

Please confirm you are withdrawing the variance request because it is no longer necessary.

Thanks,

Noel

---

*Noel S. Philip, LHG (he/him)*  
*Well Construction Coordinator*  
*Water Resources Program*  
*Washington State Department of Ecology*  
*Northwest Regional Office*  
*(206) 594-0195 office*  
*[nphi461@ecy.wa.gov](mailto:nphi461@ecy.wa.gov)*  
*(425) 200-8951 mobile*  
*(206) 366-7810 fax*

*Mailing Address:*  
*Washington State Department of Ecology*  
*Northwest Regional Office*  
*Attn: Well Construction*  
*PO Box 330316*  
*Shoreline, WA 98133-9716*

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**From:** Armocost, Zak <[Zak.Armocost@stantec.com](mailto:Zak.Armocost@stantec.com)>  
**Sent:** Tuesday, July 25, 2023 9:51 AM  
**To:** Philip, Noel (ECY) <[NPHI461@ECY.WA.GOV](mailto:NPHI461@ECY.WA.GOV)>  
**Subject:** RE: Hungry Whale - Well Tags - follow up from our call today

Hey there Noel,

I know you gave us the verbal last week that we could start work, but I remember you also saying you would get us something in writing – do you know when you'll be able to send that our way? Or driller is asking about it. Thanks a bunch and have a great day.

**Zak Armocost** *(he/him)*  
Project Specialist, Geologist

Mobile: [+1 \(385\) 318-5030](tel:+13853185030)  
[zak.armocost@stantec.com](mailto:zak.armocost@stantec.com)

---

**From:** Armocost, Zak  
**Sent:** Friday, July 21, 2023 9:15 AM  
**To:** Philip, Noel (ECY) <[NPHI461@ECY.WA.GOV](mailto:NPHI461@ECY.WA.GOV)>  
**Subject:** FW: Hungry Whale - Well Tags - follow up from our call today

Hi Noel,

Following up on our call from yesterday – we were able to track down the log for MW-07. My supervisor has indicated that we can't find MW-04 onsite, and as a result we will not decommission it. He also believes that MW-12 is a UST observation well, so it was not logged.

Does this clear up your questions? Do we still need a variance? Or are we good to proceed?

Please let me know – I'll be at a site until the early afternoon, but I'll be happy to hop on the phone and clear anything else up if need be then.

Have a great day!

**Zak Armacost** *(he/him)*  
Project Specialist, Geologist

Mobile: +1 (385) 318-5030  
[zak.armacost@stantec.com](mailto:zak.armacost@stantec.com)

---

**From:** Sauze, Marc <[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)>  
**Sent:** Thursday, July 20, 2023 4:40 PM  
**To:** Armacost, Zak <[Zak.Armacost@stantec.com](mailto:Zak.Armacost@stantec.com)>  
**Subject:** FW: Hungry Whale - Well Tags - follow up from our call today

Hi Zak,

For the three wells (MW-04, MW-07 and MW-12) that we need a variance on, I couldn't find well logs for MW-04 and MW-12.

MW-12 is an UST observation wells and not drilled in. They were just installed in the UST nest but because we sampled it Ecology wants them properly decommissioned.

We do have a well log for MW-07, it's in the attached.

So that leave MW-04 and MW-12 with no logs (at least I can't find them).

What if we explain to Noel that MW-04 is lost, we can't find it, and MW-12 is a UST observation well and therefore doesn't have a log..?

Thanks

**Marc Sauze PE**  
Principal Engineer

425-894-2329  
[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)

**Stantec**  
1687 114 Ave SE Suite 100  
Bellevue WA 98004



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---

**From:** Schweiter, Andrea <[Andrea.Schweiter@stantec.com](mailto:Andrea.Schweiter@stantec.com)>  
**Sent:** Wednesday, June 21, 2023 12:05 PM  
**To:** Sauze, Marc <[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)>  
**Cc:** David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>  
**Subject:** RE: Hungry Whale - Well Tags

Hi Marc,

I looked over the MW-20 through MW-25 well logs again just to verify I didn't make a mistake...since you tagged MW-20 as the 29' (30') well.

- It looks like the boring log for MW-20 was two pages, the well has two screens 3-13' and 25-30'. We have this well tag.
- Wells MW-21, MW-22, MW-23 and MW-24 were the shallow wells installed to 15 feet.

**Chip in place (we have well tags):**

- MW-02: AKF194
- MW-22: ALN595
- MW-23: APF851 (ALN851 in Ecology Database)
- MW-20: ALP950

**Decommission by other means:** just called Noel Philip at Ecology. Here is what he recommends.

- MW-4:
  - Use a metal detector to find the well. We could rent one, or have the utility locator find it during the locate.
  - Get a variance from Noel to chip in place – he'll approve this.
- MW-7 and MW-12:
  - Get a variance to decommission the well by complete removal. Noel confirmed that since these wells have been used as monitoring wells, they should be properly decommissioned. However, since these are shallower than the 12' excavation depth, and they're right next to the tanks and within the tank excavation boundary there is no need to decommission by chip in place first. – he'll approve complete removal.

**Variance with Ecology**

- Complete the Variance Form and email to Noel Philip [NPHI461@ecy.wa.gov](mailto:NPHI461@ecy.wa.gov) (example attached and link for blank form is below)

- <https://apps.ecology.wa.gov/publications/SummaryPages/ECY070299.html>
- Provide a site plan with the well locations and the proposed excavation boundary.
- He can give you a verbal approval once he gets all the paperwork, then an official Ecology letter will be emailed to you.

I hope this helps!

**Andrea Schweiter**  
Project Manager

Direct: 425 289-7362  
Mobile: 425 531-8948  
Fax: 425 688-8835  
[Andrea.Schweiter@stantec.com](mailto:Andrea.Schweiter@stantec.com)

Stantec  
1687 114<sup>th</sup> Ave SE, Suite 100  
Bellevue, WA 98004



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**From:** Sauze, Marc <[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)>  
**Sent:** Wednesday, June 21, 2023 11:02 AM  
**To:** Schweiter, Andrea <[Andrea.Schweiter@stantec.com](mailto:Andrea.Schweiter@stantec.com)>  
**Cc:** David Walker <[davidw@aecllc.net](mailto:davidw@aecllc.net)>  
**Subject:** RE: Hungry Whale - Well Tags

Hi Andrea

Thanks for your continued support on the Hungry Whale. I was out at the site yesterday looking for well tags and below is a summary of what we found (attached is the site plan).

Looks like we're OK to chip the following in place because we have well tags:

- MW-02
- MW-22
- MW-23
- MW-04 – we have no tag but we could not locate and it may have been paved over. What do we do about that one?
- MW-07 and MW-12 we have no tags but they look like observation wells that were sampled as part of the gwm programs – do we have to report abandonment if they're obs wells?
- MW-20 needs to be abandoned, there's no tag. It's DTB is 29' and we're excavating to 12' – can we get a waiver for that one...?

| Well ID | ECY Well Tag | On Property? | DTB (feet) | Keep? | Abandon? | Chip in Place? | Comment   | OK to Chip?     |
|---------|--------------|--------------|------------|-------|----------|----------------|---|-----------------|
| MW-01   | AKF-193      | No           |            |       |          |                | Could not locate  |                 |
| MW-02   | AKF-194      | Yes          | 12.93      | No    | Yes      | Yes            | Impacted (227 ug/L Benzene in 2021)                                       | Yes             |
| MW-03   | AKF-195      | No           |            | Yes   | No       | No             | Clean   |                 |
| MW-04   | ????         | Yes          | 16.95      | No    | Yes      | Yes            | Impacted (4,750 ug/L Benzene in 2021) - Could not locate/maybe paved over | ?? (can't find) |
| MW-05   | ????         | No           | 10.77      | Yes   | No       | No             | Clean   |                 |
| MW-06   | ????         | No           |            |       |          |                | Clean - could not locate  |                 |
| MW-07   | ????         | Yes          | 10.6       | No    | Yes      | Yes            | Impacted (8,700 Benzene in 2021) Observation well                         | ?? (obs well)   |
| MW-09   | ????         | Yes/No       | 25.5       | Yes   | No       | No             | Impacted (2,450 ug/L Benzene in 2021)                                     |                 |
| MW-10   | ????         | Yes/No       | 24.8       | Yes   | No       | No             | Impacted (238 ug/L Benzene in 2021)                                       |                 |
| MW-11   | ????         | Yes/No       | 38.08      | Yes   | No       | No             | Clean   |                 |
| MW-12   | ????         | Yes          | 10.35      | No    | Yes      | Yes            | Impacted (2,340 ug/L Benzene in 2021) - Obs well                          | ?? (obbs well)  |
| MW-13   | ????         | No           | 12.95      | Yes   | No       | No             | Clean   |                 |
| MW-14   | ????         | No           | 12.3       | Yes   | No       | No             | Clean   |                 |
| MW-20   | APF-850      | Yes          | 28.94      | No    | Yes      | Yes            | Impacted (4,550 ug/L benzene in 2021)                                     | No              |
|         | APF-853      |              |            |       |          |                |   |                 |
|         | APF-852      |              |            |       |          |                |   |                 |
| MW-21   | ALN-595      | Yes          |            | Yes   | No       | No             | Clean   |                 |
| MW-22   | ALN-595      | Yes/No       | 14.68      | No    | Yes      | Yes            | Impacted 1,370 ug/L TPH-g in 2021   | Yes             |
| MW-23   | APF-851      | Yes          | 14.75      | No    | Yes      | Yes            | Impacted 214 ug/L benzene in 2021   | Yes             |
|         | APF-853      |              |            |       |          |                |   |                 |
|         | APF-852      |              |            |       |          |                |   |                 |
| MW-24   | ALN-595      | No           |            | Yes   | No       | No             | Clean   |                 |
|         | APF-853      |              |            |       |          |                |   |                 |
|         | APF-852      |              |            |       |          |                |   |                 |
| MW-25   | ALN-595      | No           |            | Yes   | No       | No             | Clean   |                 |

**Marc Sauze PE**  
Principal Engineer

**From:** [Sauze, Marc](#)  
**To:** [shestag, carol](#)  
**Subject:** FW: Hungry Whale Well Decommissioning  
**Date:** Friday, September 15, 2023 11:55:00 AM  
**Attachments:** [Fig 2 site plan 02-21-2017.pdf](#)  
[Re Hungry Whale - Well Tags - follow up from our call today.msg](#)

---

Hello Carol,

Also an FYI and I will put this in the file. We do not have decommission well reports for MW-04, MW-07 and MW-12 (see reason below). We do have an e-mail from Noel at ECY giving us the OK to decommission the wells as part of the excavation (see attached).

Thanks

**Marc Sauze PE**

Principal Engineer

425-894-2329

[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)

**Stantec**

1687 114 Ave SE Suite 100

Bellevue WA 98004



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---

**From:** Sauze, Marc

**Sent:** Monday, July 24, 2023 3:49 PM

**To:** David Walker <davidw@aecllc.net>

**Cc:** Armacost, Zak <Zak.Armacost@stantec.com>; Aaron Aschim <aaschim@portgrays.org>

**Subject:** Hungry Whale Decommissioning

Hi David,

We've been working with Noel Phillips at Ecology to get a variance to decommission MW-04, MW-07 and MW-12 (we don't have well logs for these three wells).

Noel verbally advised how to deal with MW-04, MW-07 and MW-12 (he said he'd send something in writing this week), he said the following:

- MW-07 and MW-12 do not need a variance because they are observation wells and they can be chipped in place;
- MW-04 we can't find this well and Ecology's assumption is we will not destroy it. If we do find it during excavation we need to contact Noel and he'll advise on how to properly decommission.

The following wells can be chipped in place (we have the well tags)

- MW-02: AKF194
- MW-22: ALN595
- MW-23: APF851 (ALN851 in Ecology Database)
- MW-20: ALP950

I've attached a site plan with the well locations.

We'll forward Noel's written response as soon as we get it.

Thanks

**Marc Sauze PE**

Principal Engineer

425-894-2329

[Marc.Sauze@stantec.com](mailto:Marc.Sauze@stantec.com)

**Stantec**

1687 114 Ave SE Suite 100

Bellevue WA 98004



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Stantec

# APPENDIX D

## Project Approvals/Notifications – City of Westport and ORCAA



**From:** [Aaron Aschim](#)  
**To:** [Sauze, Marc](#)  
**Subject:** FW: Hungry Whale Remediation - Dewatering Plan  
**Date:** Tuesday, April 18, 2023 8:02:03 AM  
**Attachments:** [image001.jpg](#)

---

We have an answer.

---

**From:** Kevin Goodrich <ca@ci.westport.wa.us>  
**Sent:** Monday, April 17, 2023 4:27 PM  
**To:** Aaron Aschim <aaschim@portgrays.org>  
**Subject:** Hungry Whale Remediation - Dewatering Plan

You don't often get email from [ca@ci.westport.wa.us](mailto:ca@ci.westport.wa.us). [Learn why this is important](#)

Hi Aaron,

Per our conversation earlier I'm writing to conform that the City of Westport is acceptable to your plan to discharge the treated groundwater to our stormwater ditch system, not to exceed 150 GPM.

Let me know if you need anything else.

Best,

Kevin Goodrich  
City Administrator  
City of Westport  
Office (360) 268-0131  
Cell (360) 593-0672



**Caution:** This email originated from outside of Stantec. Please take extra precaution.

**Attention:** Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

**Atención:** Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

**From:** [David Walker](#)  
**To:** [aaschim@portgrays.org](mailto:aaschim@portgrays.org)  
**Cc:** [Sauze, Marc](#); [Kari Kaiser](#); [Kyle Johnson](#)  
**Subject:** Abatement Notification/Permits  
**Date:** Tuesday, July 11, 2023 8:15:01 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[NODR.pdf](#)  
[LNI.pdf](#)

---

Aaron,

Please see attached ORCAA & LNI notifications for the hazardous material removal from the Hungry Whale site. Let me know if you need anything further.

**David Walker** | Sr. Project Manager  
Anderson Environmental Contracting, LLC  
C: 503.351.0150 | O: 360.577.9194  
[davidw@aecllc.net](mailto:davidw@aecllc.net) | [www.aecllc.net](http://www.aecllc.net)



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**From:** [Bryson Downs](#)  
**To:** [Sauze, Marc](#)  
**Subject:** 1680 North Montesano Demolition  
**Date:** Monday, January 9, 2023 10:19:04 AM

---

Greetings,

We have received the Demolition Notification for 1680 North Montesano Street in Westport. The notification is not complete until we receive the Asbestos Survey for the structure and the on-site contact information. I understand the start date is not until August, but the notification will need to be complete at least 14 days prior to the start of demolition. If you have any questions, feel free to reach out.

Thanks,

Bryson Downs, Air Quality Specialist 1

+++++

**Olympic Region Clean Air Agency** - "*Clean Air is Everyone's Business!*"

-----  
2940 Limited Lane NW · Olympia WA 98502

1-800-422-5623 · **(360) 539-7610** ext. 110 [www.orcaa.org](http://www.orcaa.org)

Please take notice that any records or communications with ORCAA are subject to public disclosure under the Public Records Act, (RCW 42.56) unless exempt under applicable law.

*Please consider the environment before printing this email. Thank you.*

**Caution:** This email originated from outside of Stantec. Please take extra precaution.

**Attention:** Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

**Atención:** Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.



Olympic Region Clean Air Agency  
 2940 Limited Lane NW  
 Olympia, WA 98502  
 (360) 539-7610 • FAX (360) 491-6308

# Contractor Asbestos Notification

NESHAPS Project (14 day wait period)

**PROPERTY OWNER**

|  |                                |                                   |                   |
|--|--------------------------------|-----------------------------------|-------------------|
| Name: <u>Grays Harbor (The Hungry whale)</u> | Phone: ( )                     | Email:                            |                   |
| Mailing Address: <u>1680 Montesano ST</u>    | City: <u>West Port</u>         | State: <u>WA</u>                  | Zip: <u>98595</u> |
| Site Contact Person: <u>Joshua Baxter</u>    | Phone: ( ) <u>509 930-0350</u> | Email: <u>Joshua@elite-es.net</u> |                   |
| Site Address: <u>1680 Montesano ST</u>       | City: <u>West Port</u>         | County:                           | Zip: <u>98595</u> |

**ASBESTOS CONTRACTOR**

|  |                                |                                   |                   |
|--|--------------------------------|-----------------------------------|-------------------|
| Contractor/Business Name: <u>Safeguard Abatement</u> | Phone: ( ) <u>509 759-7481</u> | Email: <u>Joshua@elite-es.net</u> |                   |
| Mailing Address: <u>1702 Englewood Ave.</u>          | City: <u>Yakima</u>            | State: <u>WA</u>                  | Zip: <u>98902</u> |

**PROJECT INFORMATION**

|   |                                  |  |                                       |
|---|----------------------------------|--|---------------------------------------|
| Start Date: <u>07-24-23</u>   | Completion Date: <u>07-31-23</u> | Work Shift Days: <u>MX TX W X Th X F X Sa Su</u>   | Work Shift Hours: <u>5am - 5:30pm</u> |
| # Structures to be Abated: <u>1</u>   | Total Quantity to be Removed:    | Square Feet: <u>1400</u>   | Linear Feet:                          |
| Disposal Site: <u>Finley Buttes Regional LF 73221 Bombing Range Rd. Boardman OR 97818</u>   |                                  |  |                                       |
| Will all identified asbestos be removed from structure?<br><input type="checkbox"/> Yes <input type="checkbox"/> No   |                                  | Will this structure be demolished after asbestos removal?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                       |
| Material(s) being removed: <u>Boiler/Furnace</u> <u>Duct Insulation</u> <u>Pipe Insulation</u> <u>Fireproofing Paints</u> <u>Plaster</u><br><u>Cement Board</u> <u>Cement Pipe</u> <u>Flooring</u> <input checked="" type="checkbox"/> <u>Roofing</u> <u>Textured Coating</u> <input checked="" type="checkbox"/> <u>Other Mastic</u> |                                  |  |                                       |

**ASBESTOS PROJECT CATEGORY**

**NON-REFUNDABLE FEE**

|   |        |
|---|--------|
| 1 - <input type="checkbox"/> 10-259 linear or 48-159 square feet                | \$179  |
| 2 - <input checked="" type="checkbox"/> 260-999 linear or 160-4,999 square feet | \$387  |
| 3 - <input type="checkbox"/> 1,000-9,999 linear or 5,000-49,999 sq feet         | \$774  |
| 4 - <input type="checkbox"/> 10,000+ linear or 50,000 square feet               | \$1547 |
| <input type="checkbox"/> Emergency  | \$60   |
| <input type="checkbox"/> Annual – limit of 260 linear feet or 160 square feet   | \$595  |

I do certify that I am the owner, authorized agent of the owner, or authorized contractor for the property subject to this ORCAA Notification. I authorize ORCAA staff to enter the property listed in this Notification at reasonable times for purposes of inspecting the work that is the subject of this Notification and to ensure compliance with conditions, applicable laws, and regulations. I understand this Notification does not authorize anyone to violate federal, state, or local laws or regulation pertaining to activities associated with this Notification. I have read and will abide by the conditions set forth in this Notification and any addendum thereto.

I do certify under penalty of perjury under the laws of the state of Washington that the information in this application and supplemental data is, to the best of my knowledge true, accurate and complete.

Monnie Miller Print Applicant Name      Monnie Miller Signature      6-29-23 Date

|               |   |   |
|---------------|---|---|
| Date Received | Payment Info.<br><input type="checkbox"/> Cash<br><input type="checkbox"/> Check: # _____<br><input type="checkbox"/> Credit Card<br>Receive date: ___/___/___<br>Agency Use Only | Asbestos Notification<br># ___ ASB00 ___<br>Demolition Notification<br># ___ DEM00 ___<br>Survey: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Agency Use Only |
|---------------|---|---|



Olympic Region Clean Air Agency  
2940 Limited Lane NW  
Olympia, WA 98502  
(360) 539-7610 • FAX (360) 491-6308

# Contractor Asbestos Notification

(FY2023)

---

Asbestos projects within Clallam, Grays Harbor, Jefferson, Mason, Pacific, and Thurston counties REQUIRE A NOTIFICATION and require that the following conditions be met prior to the demolition.

Olympic Region Clean Air Agency (ORCAA) regulations define an asbestos project as any activity involving the abatement, renovation, demolition, removal, salvage, clean up, or disposal of asbestos-containing materials, or any other action that disturbs or is likely to disturb any asbestos-containing materials (ACM). It includes the removal and disposal of stored asbestos-containing materials or asbestos-containing waste material. This term does not include the application of duct tape, rewettable glass cloth, canvas, cement, paint, or other non-asbestos materials to seal or fill exposed areas where asbestos fibers may be released. ORCAA defines ACM as more than 1 percent (1%) of asbestos. Notification is not required for removal and disposal of non-friable asbestos caulking, window glazing or roofing if it meets all the requirements in ORCAA Regulation 6.3.1.

The following is merely a reference guide and not a substitute for agency regulations.

1. Certified asbestos contractors can be found on ORCAA's website, on the Washington State Labor and Industries website, as well as conducting an internet search.
2. Asbestos samples must be sent to a NVLAP Laboratory (National Voluntary Laboratory Accreditation Program) per 40 CFR 763.87. A list of labs can be found on ORCAA's website.
3. The start date for asbestos abatement projects must be at least 10 days (14 days if NESHAP project) from the submission date of the complete application and payment.
4. It is the responsibility of the building owner and/or asbestos contractor to ensure all ACM identified (or suspected) in the survey and proposed to be removed, has been removed and properly disposed of in accordance with ORCAA's Regulations.
5. A copy of the asbestos survey, Asbestos Notification, and any subsequent amendments must be kept on site and be available for review by Agency inspection personnel.
6. Use the Asbestos Amendment Notification Form to make changes to the original notification.
7. The original asbestos notification will expire on the Completion Date. To change the completion date, an Amendment form must be received PRIOR to expiration. If the notification expires and the project is not complete, you must submit and pay for another asbestos notification. Under no circumstances will a project be extended beyond 1 year from original submission date.

## ADDITIONAL REQUIREMENTS:

**"Single-Family Residence"** means any structure containing space for use such as living, sleeping, food preparation and eating. This term includes houses, mobile homes, detached garages, houseboats, and houses with a "mother-in-law apartment" or "guest room". This term does not include multiple-family units (i.e., apartment, duplex, condominium, etc.), nor does this term include any mixed-use building, structure, or installation that contains a residential unit.

**Emergency Project:** A project that was not planned but results in a public health or safety hazard; the project must proceed immediately to protect equipment, ensure continuous vital utilities, or minimize property damage; ACM was encountered that was not identified during the survey or the project must proceed to avoid imposing an unreasonable burden. **\$60 non-refundable emergency fee.**



## Asbestos Project Notification Form

**Form ID: 206515#715080532**  
Submitted: 06/29/2023 at 3:30pm

Completed by: Monnie Miller

### Project dates and notice type

Notice date: 06/29/2023  
Notice type: Initial  
Project dates: 07/24/2023 to  
07/31/2023

### Work hours

#### You will work these times:

5:00am to 7:30pm

#### ...on these dates:

Monday, Tuesday, Wednesday, Thursday, and Friday from 7/24/2023 to 7/31/2023

### Job site location

Address:  
1680 Monesano St  
Westport, WA 98595  
County: Grays Harbor

### Contractor

SAFEGUARD ABATEMENT LLC (YAKIMA)  
UBI: 603246342  
Certification: ABCN00001552  
Phone: 509-759-7481  
Contact Email: Joshua@elite-es.net  
Supervisor: Joshua Baxter  
Certification: ABAS00033482  
Phone: 509-930-0350

### Property owner

Name: Grays Harbor  
Phone: 509-759-7481  
Address:  
1680 Monesano St  
Westport, WA 98595

### Facility details

Facility type: Commercial  
Construction year: Unknown  
Size: Unknown sq. feet  
Prior use: Unknown  
Construction type:  
demolition

### Project details

**Vinyl Asbestos Tile - 1400 square feet**

Indoors

Removed

Control measures:

Critical Barriers

Hepa Vacuum

Manual Methods

Wet methods

Other: Double Bag

Respiratory protection:

1/2 mask - Air purifying respirator

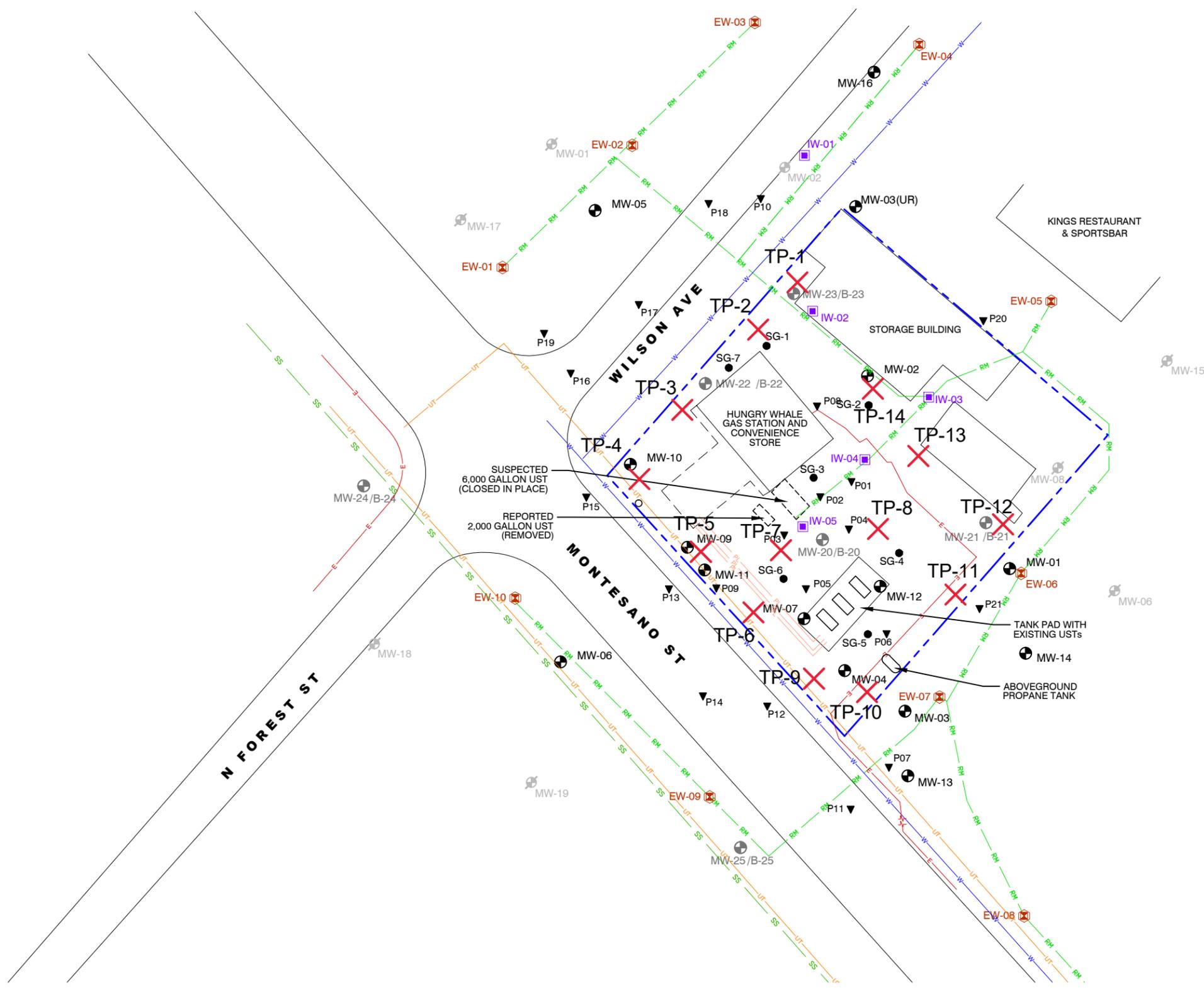
Note: w/ Mastic

# APPENDIX E

## Test Pit Data: Location Map with Field Data and Soil Analytical Reports



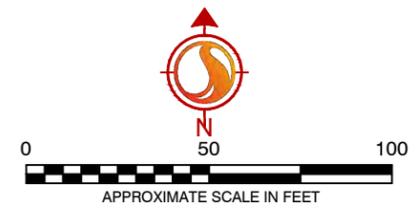
- LEGEND**
- MW-1 MONITORING WELL (pre-2007)
  - MW-1 MONITORING WELL/BORING (2007)
  - EW-01 EXTRACTION WELL (OPERATED 7/1997-10/1999)
  - IW-01 INJECTION WELL (OPERATED 7/1997-10/1999)
  - SG-1 SOIL GAS POINT (2011)
  - P01 SOIL BORING (DIRECT PUSH, 2007)
  - DESTROYED/ABANDONED WELL
  - POWER POLE
  - LEASEHOLD BOUNDARY
  - ELECTRIC LINE
  - SANITARY SEWER LINE
  - UNDERGROUND TELEPHONE LINE
  - WATER LINE
  - REMEDIATION SYSTEM PIPING
  - STATION FUEL/PRODUCT LINE
  - PROPOSED GEOTECHNICAL TEST PIT LOCATION



**NOTE: ONLY TEST PITS TP-1, TP-3, TP-4, TP-6, AND TP-10 THROUGH TP-14 WERE EXCAVATED ON 6/26/2023 AND 6/27/2023. FIELD DATA ARE SUMMARIZED BELOW.**

- TP-1: TOTAL DEPTH = 8' bgs; PID = 5200 ppm.
- TP-3: TOTAL DEPTH = 8' bgs; PID = 4580 ppm.
- TP-4: TOTAL DEPTH = 8.5 bgs; PID = 2.8 to 51.7 ppm.
- TP-6: TOTAL DEPTH = 7.5' bgs; PID = 4567 to 9999+ ppm.
- TP-10: TOTAL DEPTH = 7.5' bgs; PID = 9999+ ppm.
- TP-11: TOTAL DEPTH = 11' bgs; PID = 3963 to 4309 ppm.
- TP-12: TOTAL DEPTH = 11.5' bgs; PID = 55.7 ppm.
- TP-13: TOTAL DEPTH = 8' bgs; PID = 3613 ppm.
- TP-14: TOTAL DEPTH = 9' bgs; PID = 43.5 to 460.3 ppm.

No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.



|  |  |                  |   |              |                      |
|--|--|------------------|---|--------------|----------------------|
| <p>11130 NE 33RD PLACE, SUITE 200<br/>BELLEVUE, WASHINGTON<br/>PHONE: (425) 869-9448 FAX: (425) 869-1190</p> | FOR:<br><b>THE HUNGRY WHALE</b><br>1680 NORTH MONTESANO STREET<br>WESTPORT, WASHINGTON |                  | <b>PROPOSED TEST PIT<br/>LOCATIONS - SITE MAP</b> |              | FIGURE:<br><b>E1</b> |
|  | JOB NUMBER:<br>185703328   | DRAWN BY:<br>MDR | CHECKED BY:<br>CS                                 | APPROVED BY: | DATE:<br>JAN 2017    |

## Stantec- Bellevue, WA

Sample Delivery Group: L1630920  
Samples Received: 06/29/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

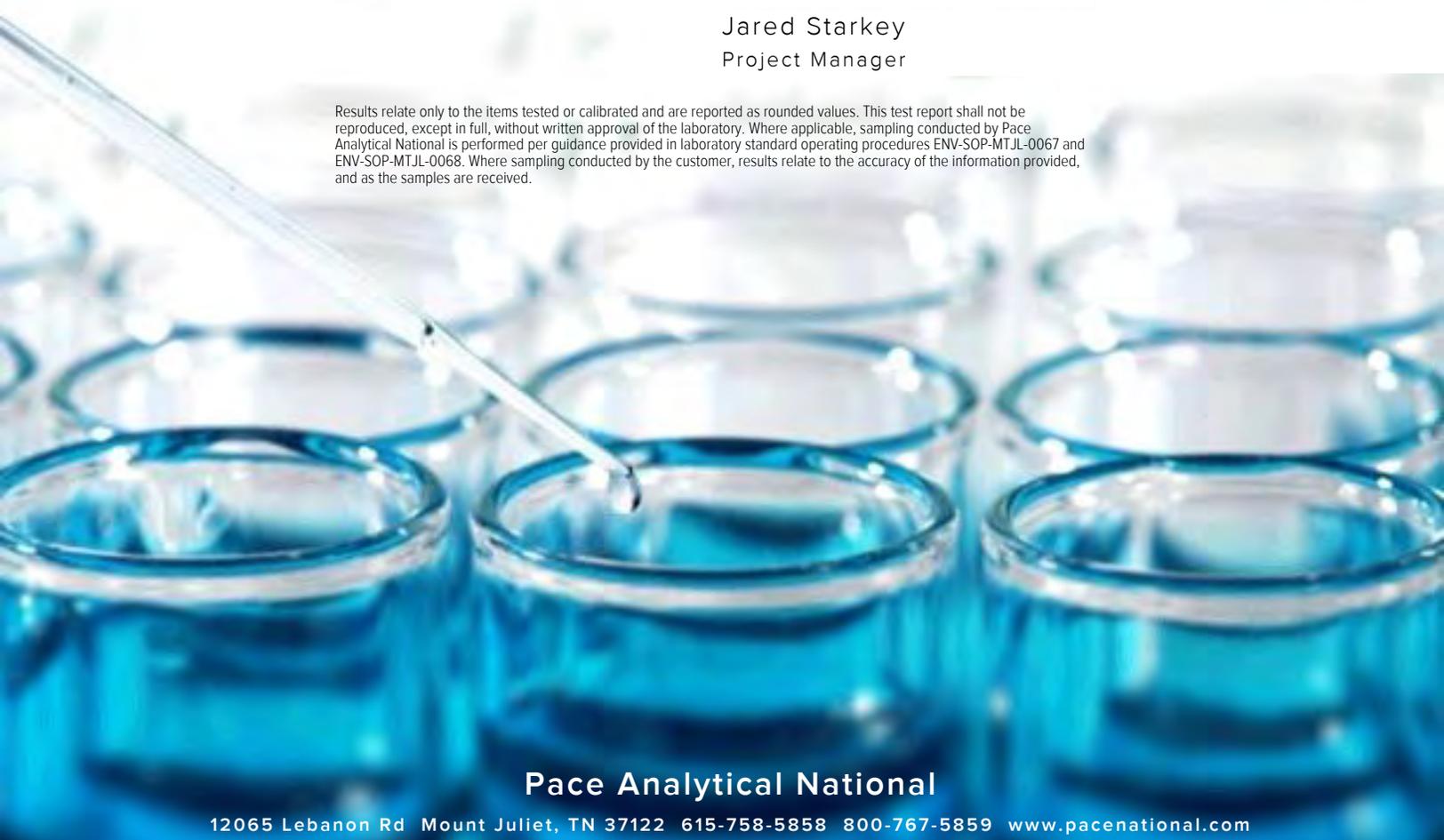
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## TP-12-11.5 L1630920-01 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 10:01    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087291 | 1        | 06/30/23 07:59        | 06/30/23 08:12     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 25       | 06/26/23 10:01        | 07/03/23 01:02     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088619 | 1        | 06/26/23 10:01        | 07/03/23 17:44     | ACG     | Mt. Juliet, TN |



## TP-11-11.0 L1630920-02 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 11:01    06/29/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Mercury by Method 7471B                                       | WG2088378 | 1        | 07/06/23 12:02        | 07/06/23 21:25     | AKB     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2087410 | 1        | 07/02/23 22:07        | 07/06/23 23:28     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2088424 | 500      | 06/26/23 11:01        | 07/03/23 02:57     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2088725 | 40       | 06/26/23 11:01        | 07/03/23 18:02     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2090778 | 400      | 06/26/23 11:01        | 07/07/23 15:47     | BAM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2089205 | 1        | 07/05/23 09:29        | 07/05/23 22:09     | JSS     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2089199 | 1        | 07/05/23 06:02        | 07/05/23 15:53     | AED     | Mt. Juliet, TN |

## TP-1-8.0 L1630920-03 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 12:35    06/29/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Mercury by Method 7471B                                       | WG2088378 | 1        | 07/06/23 12:02        | 07/06/23 21:28     | AKB     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2087410 | 1        | 07/02/23 22:07        | 07/06/23 23:31     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2088675 | 1000     | 06/26/23 12:35        | 07/03/23 17:53     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2088725 | 80       | 06/26/23 12:35        | 07/03/23 18:21     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2089205 | 1        | 07/05/23 09:29        | 07/05/23 20:59     | JSS     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2089199 | 1        | 07/05/23 06:02        | 07/05/23 16:11     | AED     | Mt. Juliet, TN |

## TP-14-3.5 L1630920-04 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 14:15    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 25       | 06/26/23 14:15        | 07/03/23 01:25     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088725 | 3.33     | 06/26/23 14:15        | 07/03/23 15:28     | DWR     | Mt. Juliet, TN |

## TP-14-13.5 L1630920-05 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 14:54    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 290      | 06/26/23 14:54        | 07/03/23 02:11     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2090778 | 4.24     | 06/26/23 14:54        | 07/07/23 15:28     | BAM     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## TP-13-8.0 L1630920-06 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 16:00    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 500      | 06/26/23 16:00        | 07/03/23 03:20     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088725 | 41.2     | 06/26/23 16:00        | 07/03/23 18:59     | DWR     | Mt. Juliet, TN |

1  
Cp

2  
Tc

3  
Ss

## TP-10-3.0 L1630920-07 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 16:10    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088675 | 1000     | 06/26/23 16:10        | 07/03/23 18:12     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088725 | 80.8     | 06/26/23 16:10        | 07/03/23 19:19     | DWR     | Mt. Juliet, TN |

4  
Cn

5  
Sr

6  
Qc

## TP-10-7.5 L1630920-08 Solid

Collected by  
Collected date/time  
Received date/time

06/26/23 16:31    06/29/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Mercury by Method 7471B                                       | WG2088378 | 1        | 07/06/23 12:02        | 07/06/23 21:30     | AKB     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2087410 | 1        | 07/02/23 22:07        | 07/06/23 23:34     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2088424 | 250      | 06/26/23 16:31        | 07/03/23 02:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2088725 | 20       | 06/26/23 16:31        | 07/03/23 19:38     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2089205 | 1        | 07/05/23 09:29        | 07/05/23 21:25     | JSS     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2089199 | 1        | 07/05/23 06:02        | 07/05/23 16:29     | AED     | Mt. Juliet, TN |

7  
Is

8  
Gl

9  
Al

10  
Sc

## TP-6-7.5 L1630920-09 Solid

Collected by  
Collected date/time  
Received date/time

06/27/23 08:02    06/29/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Mercury by Method 7471B                                       | WG2088378 | 1        | 07/06/23 12:02        | 07/06/23 21:33     | AKB     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2090356 | 1        | 07/06/23 17:23        | 07/08/23 23:50     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2088675 | 1000     | 06/27/23 08:02        | 07/03/23 18:30     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2088997 | 80       | 06/27/23 08:02        | 07/04/23 05:25     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2089926 | 1000     | 06/27/23 08:02        | 07/06/23 13:11     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2089205 | 1        | 07/05/23 09:29        | 07/06/23 02:14     | JSS     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2089199 | 1        | 07/05/23 06:02        | 07/05/23 16:47     | AED     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2089199 | 10       | 07/05/23 06:02        | 07/06/23 18:38     | AED     | Mt. Juliet, TN |

## TP-4-8.5 L1630920-10 Solid

Collected by  
Collected date/time  
Received date/time

06/27/23 09:20    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 25       | 06/27/23 09:20        | 07/03/23 01:48     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088997 | 1.06     | 06/27/23 09:20        | 07/04/23 01:58     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## TP-3-8.0 L1630920-11 Solid

Collected by  
Collected date/time  
Received date/time

06/27/23 00:00    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087292 | 1        | 06/30/23 08:45        | 06/30/23 08:55     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088675 | 1000     | 06/27/23 00:00        | 07/03/23 18:48     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088997 | 80       | 06/27/23 00:00        | 07/04/23 05:44     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2089926 | 1000     | 06/27/23 00:00        | 07/06/23 13:31     | DWR     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

## DUP-01 L1630920-12 Solid

Collected by  
Collected date/time  
Received date/time

06/27/23 00:00    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2087293 | 1        | 06/30/23 12:01        | 06/30/23 12:26     | KDW     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088675 | 1000     | 06/27/23 00:00        | 07/03/23 19:06     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088997 | 80       | 06/27/23 00:00        | 07/04/23 06:02     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2089926 | 800      | 06/27/23 00:00        | 07/06/23 13:51     | DWR     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Is

8 Gl

## TRIP BLANK L1630920-13 Solid

Collected by  
Collected date/time  
Received date/time

06/27/23 00:00    06/29/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2088424 | 25       | 06/27/23 00:00        | 07/02/23 22:20     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2088997 | 1        | 06/27/23 00:00        | 07/04/23 01:01     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2089377 | 1        | 06/27/23 00:00        | 07/05/23 20:35     | JAH     | Mt. Juliet, TN |

9 Al

10 Sc

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey  
Project Manager



## Metals (ICP) by Method 6010D

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

| Batch     | Lab Sample ID    | Analytes |
|-----------|------------------|----------|
| WG2090356 | (MSD) R3946529-6 | Barium   |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch     | Lab Sample ID   | Analytes |
|-----------|-----------------|----------|
| WG2090356 | (MS) R3946529-5 | Barium   |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID    | Analytes |
|-----------|------------------|----------|
| WG2090356 | (MSD) R3946529-6 | Barium   |

## Volatile Organic Compounds (GC) by Method NWTPHGX

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID               |
|-----------|-------------------------------|-----------------------------|
| WG2088424 | Gasoline Range Organics-NWTPH | L1630920-01, 04, 05, 10, 13 |

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

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch     | Lab Sample ID   | Analytes                    |
|-----------|-----------------|-----------------------------|
| WG2089205 | (MS) R3945066-3 | Diesel Range Organics (DRO) |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID    | Analytes                    |
|-----------|------------------|-----------------------------|
| WG2089205 | (MSD) R3945066-4 | Diesel Range Organics (DRO) |

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

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte         | Lab Sample ID |
|-----------|-----------------|---------------|
| WG2089199 | Nitrobenzene-d5 | L1630920-09   |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 91.0   |           | 1        | 06/30/2023 08:12 | <a href="#">WG2087291</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.91         | <u>B</u>  | 1.02      | 3.00      | 25       | 07/03/2023 01:02 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.3         |           |           | 77.0-120  |          | 07/03/2023 01:02 | <a href="#">WG2088424</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00182      |           | 0.000561  | 0.00120   | 1        | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| Toluene                   | 0.0168       |           | 0.00156   | 0.00600   | 1        | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| Ethylbenzene              | 0.0132       |           | 0.000885  | 0.00300   | 1        | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| Total Xylenes             | 0.136        |           | 0.00106   | 0.00780   | 1        | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| (S) Toluene-d8            | 112          |           |           | 75.0-131  |          | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 07/03/2023 17:44 | <a href="#">WG2088619</a> |
| (S) 1,2-Dichloroethane-d4 | 96.3         |           |           | 70.0-130  |          | 07/03/2023 17:44 | <a href="#">WG2088619</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 76.8   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Mercury by Method 7471B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Mercury | 0.0256       | J         | 0.0235    | 0.0521    | 1        | 07/06/2023 21:25 | <a href="#">WG2088378</a> |

Metals (ICP) by Method 6010D

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic  | 1.88         | J         | 0.675     | 2.61      | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Barium   | 8.75         |           | 0.111     | 0.651     | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Cadmium  | 0.0997       | J         | 0.0614    | 0.651     | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Chromium | 17.5         |           | 0.173     | 1.30      | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Lead     | 4.02         |           | 0.271     | 0.651     | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Selenium | U            |           | 0.995     | 2.61      | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |
| Silver   | U            |           | 0.165     | 1.30      | 1        | 07/06/2023 23:28 | <a href="#">WG2087410</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4520         |           | 27.7      | 81.9      | 500      | 07/03/2023 02:57 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.2         |           |           | 77.0-120  |          | 07/03/2023 02:57 | <a href="#">WG2088424</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.705        |           | 0.0306    | 0.0655    | 40       | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| Toluene                   | 31.8         |           | 0.0852    | 0.328     | 40       | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 74.4         |           | 0.0483    | 0.164     | 40       | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| Total Xylenes             | 418          |           | 0.577     | 4.26      | 400      | 07/07/2023 15:47 | <a href="#">WG2090778</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 07/07/2023 15:47 | <a href="#">WG2090778</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 07/07/2023 15:47 | <a href="#">WG2090778</a> |
| (S) 1,2-Dichloroethane-d4 | 91.8         |           |           | 70.0-130  |          | 07/03/2023 18:02 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1         |           |           | 70.0-130  |          | 07/07/2023 15:47 | <a href="#">WG2090778</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 122          |           | 1.73      | 5.21      | 1        | 07/05/2023 22:09 | <a href="#">WG2089205</a> |
| Residual Range Organics (RRO) | 8.43         | J         | 4.34      | 13.0      | 1        | 07/05/2023 22:09 | <a href="#">WG2089205</a> |
| (S) o-Terphenyl               | 44.7         |           |           | 18.0-148  |          | 07/05/2023 22:09 | <a href="#">WG2089205</a> |

Sample Narrative:

L1630920-02 WG2089205: Sample resembles laboratory standard for Kerosene.



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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Anthracene             | U                     |           | 0.00300            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Acenaphthene           | 0.0103                |           | 0.00272            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Acenaphthylene         | U                     |           | 0.00281            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Benzo(a)anthracene     | 0.00323               | J         | 0.00225            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Benzo(a)pyrene         | U                     |           | 0.00233            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Benzo(b)fluoranthene   | U                     |           | 0.00199            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Benzo(g,h,i)perylene   | U                     |           | 0.00231            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00280            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Chrysene               | U                     |           | 0.00302            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00224            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Fluoranthene           | 0.00732               | J         | 0.00296            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Fluorene               | 0.0105                |           | 0.00267            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00236            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Naphthalene            | 2.10                  |           | 0.00532            | 0.0261             | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Phenanthrene           | 0.0224                |           | 0.00301            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| Pyrene                 | 0.00928               |           | 0.00261            | 0.00782            | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| 1-Methylnaphthalene    | 1.68                  |           | 0.00585            | 0.0261             | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| 2-Methylnaphthalene    | 3.67                  |           | 0.00556            | 0.0261             | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00607            | 0.0261             | 1        | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| (S) p-Terphenyl-d14    | 77.1                  |           |                    | 23.0-120           |          | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| (S) Nitrobenzene-d5    | 89.8                  |           |                    | 14.0-149           |          | 07/05/2023 15:53        | <a href="#">WG2089199</a> |
| (S) 2-Fluorobiphenyl   | 70.5                  |           |                    | 34.0-125           |          | 07/05/2023 15:53        | <a href="#">WG2089199</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.9   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Mercury by Method 7471B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Mercury | 0.0323       | J         | 0.0228    | 0.0507    | 1        | 07/06/2023 21:28 | <a href="#">WG2088378</a> |

Metals (ICP) by Method 6010D

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic  | 1.40         | J         | 0.657     | 2.54      | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Barium   | 9.58         |           | 0.108     | 0.634     | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Cadmium  | 0.0919       | J         | 0.0597    | 0.634     | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Chromium | 14.1         |           | 0.169     | 1.27      | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Lead     | 1.25         |           | 0.264     | 0.634     | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Selenium | U            |           | 0.969     | 2.54      | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |
| Silver   | U            |           | 0.161     | 1.27      | 1        | 07/06/2023 23:31 | <a href="#">WG2087410</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2470         |           | 52.9      | 156       | 1000     | 07/03/2023 17:53 | <a href="#">WG2088675</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 108          |           |           | 77.0-120  |          | 07/03/2023 17:53 | <a href="#">WG2088675</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.32         |           | 0.0591    | 0.126     | 80       | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| Toluene                   | 75.8         |           | 0.164     | 0.632     | 80       | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 86.2         |           | 0.0932    | 0.316     | 80       | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| Total Xylenes             | 455          |           | 0.111     | 0.821     | 80       | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 07/03/2023 18:21 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 94.3         |           |           | 70.0-130  |          | 07/03/2023 18:21 | <a href="#">WG2088725</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 58.7         |           | 1.69      | 5.07      | 1        | 07/05/2023 20:59 | <a href="#">WG2089205</a> |
| Residual Range Organics (RRO) | U            |           | 4.22      | 12.7      | 1        | 07/05/2023 20:59 | <a href="#">WG2089205</a> |
| (S) o-Terphenyl               | 55.4         |           |           | 18.0-148  |          | 07/05/2023 20:59 | <a href="#">WG2089205</a> |

Sample Narrative:

L1630920-03 WG2089205: Sample resembles laboratory standard for Kerosene.

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

| Analyte            | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Anthracene         | U            |           | 0.00292   | 0.00761   | 1        | 07/05/2023 16:11 | <a href="#">WG2089199</a> |
| Acenaphthene       | 0.0121       |           | 0.00265   | 0.00761   | 1        | 07/05/2023 16:11 | <a href="#">WG2089199</a> |
| Acenaphthylene     | U            |           | 0.00274   | 0.00761   | 1        | 07/05/2023 16:11 | <a href="#">WG2089199</a> |
| Benzo(a)anthracene | U            |           | 0.00219   | 0.00761   | 1        | 07/05/2023 16:11 | <a href="#">WG2089199</a> |
| Benzo(a)pyrene     | U            |           | 0.00227   | 0.00761   | 1        | 07/05/2023 16:11 | <a href="#">WG2089199</a> |



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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Benzo(b)fluoranthene   | U                     |           | 0.00194            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Benzo(g,h,i)perylene   | U                     |           | 0.00224            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00273            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Chrysene               | U                     |           | 0.00294            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00218            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Fluoranthene           | 0.00303               | J         | 0.00288            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Fluorene               | 0.00814               |           | 0.00260            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00230            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Naphthalene            | 2.07                  |           | 0.00517            | 0.0254             | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Phenanthrene           | 0.0126                |           | 0.00293            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| Pyrene                 | 0.00401               | J         | 0.00254            | 0.00761            | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| 1-Methylnaphthalene    | 2.02                  |           | 0.00569            | 0.0254             | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| 2-Methylnaphthalene    | 4.59                  |           | 0.00542            | 0.0254             | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00591            | 0.0254             | 1        | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| (S) p-Terphenyl-d14    | 76.1                  |           |                    | 23.0-120           |          | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| (S) Nitrobenzene-d5    | 91.1                  |           |                    | 14.0-149           |          | 07/05/2023 16:11        | <a href="#">WG2089199</a> |
| (S) 2-Fluorobiphenyl   | 68.4                  |           |                    | 34.0-125           |          | 07/05/2023 16:11        | <a href="#">WG2089199</a> |

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 59.8   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.24         | <a href="#">B J</a> | 2.19      | 6.45      | 25       | 07/03/2023 01:25 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.0         |                     |           | 77.0-120  |          | 07/03/2023 01:25 | <a href="#">WG2088424</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0140       |                   | 0.00292   | 0.00624   | 3.33     | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| Toluene                   | 0.0210       | <a href="#">J</a> | 0.00811   | 0.0313    | 3.33     | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 0.0223       |                   | 0.00459   | 0.0156    | 3.33     | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| Total Xylenes             | 0.0757       |                   | 0.00549   | 0.0405    | 3.33     | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 110          |                   |           | 75.0-131  |          | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 95.9         |                   |           | 67.0-138  |          | 07/03/2023 15:28 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 86.4         |                   |           | 70.0-130  |          | 07/03/2023 15:28 | <a href="#">WG2088725</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 66.5   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 99.0         | <u>B</u>  | 19.0      | 56.2      | 290      | 07/03/2023 02:11 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 86.1         |           |           | 77.0-120  |          | 07/03/2023 02:11 | <a href="#">WG2088424</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.299        |           | 0.00392   | 0.00839   | 4.24     | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| Toluene                   | 0.0639       |           | 0.0109    | 0.0419    | 4.24     | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| Ethylbenzene              | 0.0957       |           | 0.00617   | 0.0210    | 4.24     | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| Total Xylenes             | 0.479        |           | 0.00738   | 0.0546    | 4.24     | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| (S) Toluene-d8            | 107          |           |           | 75.0-131  |          | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| (S) 4-Bromofluorobenzene  | 98.2         |           |           | 67.0-138  |          | 07/07/2023 15:28 | <a href="#">WG2090778</a> |
| (S) 1,2-Dichloroethane-d4 | 94.1         |           |           | 70.0-130  |          | 07/07/2023 15:28 | <a href="#">WG2090778</a> |

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 95.7   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1520         |           | 18.4      | 54.5      | 500      | 07/03/2023 03:20 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 82.5         |           |           | 77.0-120  |          | 07/03/2023 03:20 | <a href="#">WG2088424</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.0209    | 0.0449    | 41.2     | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| Toluene                   | 0.172        | J         | 0.0584    | 0.224     | 41.2     | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 21.2         |           | 0.0331    | 0.112     | 41.2     | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| Total Xylenes             | 136          |           | 0.0395    | 0.292     | 41.2     | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           | 67.0-138  |          | 07/03/2023 18:59 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 91.1         |           |           | 70.0-130  |          | 07/03/2023 18:59 | <a href="#">WG2088725</a> |

Sample Narrative:

L1630920-06 WG2088725: Non-target compounds too high to run at a lower dilution.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.3   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5340         |           | 52.9      | 156       | 1000     | 07/03/2023 18:12 | <a href="#">WG2088675</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 108          |           |           | 77.0-120  |          | 07/03/2023 18:12 | <a href="#">WG2088675</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.35         |           | 0.0586    | 0.125     | 80.8     | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| Toluene                   | 0.674        |           | 0.163     | 0.627     | 80.8     | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 88.1         |           | 0.0924    | 0.314     | 80.8     | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| Total Xylenes             | 458          |           | 0.110     | 0.815     | 80.8     | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 07/03/2023 19:19 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 94.0         |           |           | 70.0-130  |          | 07/03/2023 19:19 | <a href="#">WG2088725</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.0   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Mercury by Method 7471B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Mercury | 0.0300       | J         | 0.0228    | 0.0506    | 1        | 07/06/2023 21:30 | <a href="#">WG2088378</a> |

Metals (ICP) by Method 6010D

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic  | 2.32         | J         | 0.656     | 2.53      | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Barium   | 8.24         |           | 0.108     | 0.633     | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Cadmium  | 0.0692       | J         | 0.0596    | 0.633     | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Chromium | 18.1         |           | 0.168     | 1.27      | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Lead     | 1.72         |           | 0.263     | 0.633     | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Selenium | U            |           | 0.967     | 2.53      | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |
| Silver   | U            |           | 0.161     | 1.27      | 1        | 07/06/2023 23:34 | <a href="#">WG2087410</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                           | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-----------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH     | 516          |           | 13.4      | 39.4      | 250      | 07/03/2023 02:34 | <a href="#">WG2088424</a> |
| (S) a, a, a-Trifluorotoluene(FID) | 88.3         |           |           | 77.0-120  |          | 07/03/2023 02:34 | <a href="#">WG2088424</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.293        |           | 0.0147    | 0.0315    | 20       | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| Toluene                   | 1.72         |           | 0.0410    | 0.158     | 20       | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| Ethylbenzene              | 12.4         |           | 0.0232    | 0.0788    | 20       | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| Total Xylenes             | 89.0         |           | 0.0277    | 0.205     | 20       | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 07/03/2023 19:38 | <a href="#">WG2088725</a> |
| (S) 1,2-Dichloroethane-d4 | 90.9         |           |           | 70.0-130  |          | 07/03/2023 19:38 | <a href="#">WG2088725</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 19.4         |           | 1.68      | 5.06      | 1        | 07/05/2023 21:25 | <a href="#">WG2089205</a> |
| Residual Range Organics (RRO) | U            |           | 4.22      | 12.7      | 1        | 07/05/2023 21:25 | <a href="#">WG2089205</a> |
| (S) o-Terphenyl               | 29.3         |           |           | 18.0-148  |          | 07/05/2023 21:25 | <a href="#">WG2089205</a> |

Sample Narrative:

L1630920-08 WG2089205: Sample resembles laboratory standard for Gasoline.

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

| Analyte            | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|--------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Anthracene         | U            |           | 0.00291   | 0.00760   | 1        | 07/05/2023 16:29 | <a href="#">WG2089199</a> |
| Acenaphthene       | 0.00309      | J         | 0.00265   | 0.00760   | 1        | 07/05/2023 16:29 | <a href="#">WG2089199</a> |
| Acenaphthylene     | U            |           | 0.00273   | 0.00760   | 1        | 07/05/2023 16:29 | <a href="#">WG2089199</a> |
| Benzo(a)anthracene | U            |           | 0.00219   | 0.00760   | 1        | 07/05/2023 16:29 | <a href="#">WG2089199</a> |
| Benzo(a)pyrene     | U            |           | 0.00227   | 0.00760   | 1        | 07/05/2023 16:29 | <a href="#">WG2089199</a> |



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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Benzo(b)fluoranthene   | U                     |           | 0.00194            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Benzo(g,h,i)perylene   | U                     |           | 0.00224            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00272            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Chrysene               | U                     |           | 0.00294            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00218            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Fluoranthene           | U                     |           | 0.00287            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Fluorene               | 0.00273               | J         | 0.00260            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00229            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Naphthalene            | 1.10                  |           | 0.00517            | 0.0253             | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Phenanthrene           | 0.00356               | J         | 0.00292            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| Pyrene                 | U                     |           | 0.00253            | 0.00760            | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| 1-Methylnaphthalene    | 0.633                 |           | 0.00569            | 0.0253             | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| 2-Methylnaphthalene    | 1.42                  |           | 0.00541            | 0.0253             | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00590            | 0.0253             | 1        | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| (S) p-Terphenyl-d14    | 82.8                  |           |                    | 23.0-120           |          | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| (S) Nitrobenzene-d5    | 68.6                  |           |                    | 14.0-149           |          | 07/05/2023 16:29        | <a href="#">WG2089199</a> |
| (S) 2-Fluorobiphenyl   | 68.9                  |           |                    | 34.0-125           |          | 07/05/2023 16:29        | <a href="#">WG2089199</a> |

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.1   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Mercury by Method 7471B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Mercury | 0.0241       | J         | 0.0225    | 0.0499    | 1        | 07/06/2023 21:33 | <a href="#">WG2088378</a> |

Metals (ICP) by Method 6010D

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Arsenic  | 1.40         | J         | 0.646     | 2.50      | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Barium   | 3.66         |           | 0.106     | 0.624     | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Cadmium  | U            |           | 0.0588    | 0.624     | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Chromium | 12.1         |           | 0.166     | 1.25      | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Lead     | 6.05         |           | 0.260     | 0.624     | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Selenium | U            |           | 0.953     | 2.50      | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |
| Silver   | U            |           | 0.158     | 1.25      | 1        | 07/08/2023 23:50 | <a href="#">WG2090356</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5160         |           | 52.0      | 153       | 1000     | 07/03/2023 18:30 | <a href="#">WG2088675</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105          |           |           | 77.0-120  |          | 07/03/2023 18:30 | <a href="#">WG2088675</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 17.1         |           | 0.0567    | 0.121     | 80       | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| Toluene                   | 69.9         |           | 0.158     | 0.607     | 80       | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| Ethylbenzene              | 165          |           | 0.0895    | 0.303     | 80       | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| Total Xylenes             | 443          |           | 1.35      | 9.97      | 1000     | 07/06/2023 13:11 | <a href="#">WG2089926</a> |
| (S) Toluene-d8            | 110          |           |           | 75.0-131  |          | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| (S) Toluene-d8            | 97.1         |           |           | 75.0-131  |          | 07/06/2023 13:11 | <a href="#">WG2089926</a> |
| (S) 4-Bromofluorobenzene  | 111          |           |           | 67.0-138  |          | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 07/06/2023 13:11 | <a href="#">WG2089926</a> |
| (S) 1,2-Dichloroethane-d4 | 94.2         |           |           | 70.0-130  |          | 07/04/2023 05:25 | <a href="#">WG2088997</a> |
| (S) 1,2-Dichloroethane-d4 | 105          |           |           | 70.0-130  |          | 07/06/2023 13:11 | <a href="#">WG2089926</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 119          |           | 1.66      | 4.99      | 1        | 07/06/2023 02:14 | <a href="#">WG2089205</a> |
| Residual Range Organics (RRO) | 4.19         | J         | 4.16      | 12.5      | 1        | 07/06/2023 02:14 | <a href="#">WG2089205</a> |
| (S) o-Terphenyl               | 53.3         |           |           | 18.0-148  |          | 07/06/2023 02:14 | <a href="#">WG2089205</a> |

Sample Narrative:

L1630920-09 WG2089205: Sample resembles laboratory standard for Kerosene.

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

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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Anthracene             | U                     |           | 0.00287            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Acenaphthene           | 0.0316                |           | 0.00261            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Acenaphthylene         | U                     |           | 0.00270            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Benzo(a)anthracene     | 0.00540               | J         | 0.00216            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Benzo(a)pyrene         | 0.00231               | J         | 0.00223            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Benzo(b)fluoranthene   | U                     |           | 0.00191            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Benzo(g,h,i)perylene   | 0.00223               | J         | 0.00221            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00268            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Chrysene               | 0.00302               | J         | 0.00290            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00215            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Fluoranthene           | 0.0161                |           | 0.00283            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Fluorene               | 0.0266                |           | 0.00256            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00226            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Naphthalene            | 9.03                  |           | 0.0509             | 0.250              | 10       | 07/06/2023 18:38        | <a href="#">WG2089199</a> |
| Phenanthrene           | 0.0524                |           | 0.00288            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| Pyrene                 | 0.0148                |           | 0.00250            | 0.00749            | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| 1-Methylnaphthalene    | 4.60                  |           | 0.00560            | 0.0250             | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| 2-Methylnaphthalene    | 10.4                  |           | 0.0533             | 0.250              | 10       | 07/06/2023 18:38        | <a href="#">WG2089199</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00581            | 0.0250             | 1        | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| (S) p-Terphenyl-d14    | 78.1                  |           |                    | 23.0-120           |          | 07/06/2023 18:38        | <a href="#">WG2089199</a> |
| (S) p-Terphenyl-d14    | 78.2                  |           |                    | 23.0-120           |          | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| (S) Nitrobenzene-d5    | 134                   |           |                    | 14.0-149           |          | 07/06/2023 18:38        | <a href="#">WG2089199</a> |
| (S) Nitrobenzene-d5    | 0.000                 | J2        |                    | 14.0-149           |          | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| (S) 2-Fluorobiphenyl   | 70.2                  |           |                    | 34.0-125           |          | 07/05/2023 16:47        | <a href="#">WG2089199</a> |
| (S) 2-Fluorobiphenyl   | 72.7                  |           |                    | 34.0-125           |          | 07/06/2023 18:38        | <a href="#">WG2089199</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Sample Narrative:

L1630920-09 WG2089199: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 76.6   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 21.5         | <u>B</u>  | 1.43      | 4.20      | 25       | 07/03/2023 01:48 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 84.6         |           |           | 77.0-120  |          | 07/03/2023 01:48 | <a href="#">WG2088424</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0290       |           | 0.000788  | 0.00169   | 1.06     | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| Toluene                   | 0.101        |           | 0.00220   | 0.00844   | 1.06     | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| Ethylbenzene              | 2.02         |           | 0.00124   | 0.00422   | 1.06     | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| Total Xylenes             | 4.28         |           | 0.00149   | 0.0110    | 1.06     | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| (S) Toluene-d8            | 113          |           |           | 75.0-131  |          | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| (S) 4-Bromofluorobenzene  | 114          |           |           | 67.0-138  |          | 07/04/2023 01:58 | <a href="#">WG2088997</a> |
| (S) 1,2-Dichloroethane-d4 | 92.4         |           |           | 70.0-130  |          | 07/04/2023 01:58 | <a href="#">WG2088997</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.3   |           | 1        | 06/30/2023 08:55 | <a href="#">WG2087292</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 6090         |           | 51.9      | 153       | 1000     | 07/03/2023 18:48 | <a href="#">WG2088675</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 109          |           |           | 77.0-120  |          | 07/03/2023 18:48 | <a href="#">WG2088675</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.327        |           | 0.0584    | 0.125     | 80       | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| Toluene                   | 4.75         |           | 0.162     | 0.625     | 80       | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| Ethylbenzene              | 203          |           | 0.0922    | 0.312     | 80       | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| Total Xylenes             | 380          |           | 1.35      | 9.95      | 1000     | 07/06/2023 13:31 | <a href="#">WG2089926</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| (S) Toluene-d8            | 98.6         |           |           | 75.0-131  |          | 07/06/2023 13:31 | <a href="#">WG2089926</a> |
| (S) 4-Bromofluorobenzene  | 112          |           |           | 67.0-138  |          | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 07/06/2023 13:31 | <a href="#">WG2089926</a> |
| (S) 1,2-Dichloroethane-d4 | 83.1         |           |           | 70.0-130  |          | 07/04/2023 05:44 | <a href="#">WG2088997</a> |
| (S) 1,2-Dichloroethane-d4 | 108          |           |           | 70.0-130  |          | 07/06/2023 13:31 | <a href="#">WG2089926</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 87.0   |           | 1        | 06/30/2023 12:26 | <a href="#">WG2087293</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5920         |           | 44.3      | 131       | 1000     | 07/03/2023 19:06 | <a href="#">WG2088675</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110          |           |           | 77.0-120  |          | 07/03/2023 19:06 | <a href="#">WG2088675</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.156        |           | 0.0490    | 0.105     | 80       | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| Toluene                   | 2.19         |           | 0.136     | 0.524     | 80       | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| Ethylbenzene              | 110          |           | 0.0773    | 0.262     | 80       | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| Total Xylenes             | 399          |           | 0.921     | 6.80      | 800      | 07/06/2023 13:51 | <a href="#">WG2089926</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| (S) Toluene-d8            | 95.2         |           |           | 75.0-131  |          | 07/06/2023 13:51 | <a href="#">WG2089926</a> |
| (S) 4-Bromofluorobenzene  | 115          |           |           | 67.0-138  |          | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| (S) 4-Bromofluorobenzene  | 96.2         |           |           | 67.0-138  |          | 07/06/2023 13:51 | <a href="#">WG2089926</a> |
| (S) 1,2-Dichloroethane-d4 | 98.0         |           |           | 70.0-130  |          | 07/04/2023 06:02 | <a href="#">WG2088997</a> |
| (S) 1,2-Dichloroethane-d4 | 112          |           |           | 70.0-130  |          | 07/06/2023 13:51 | <a href="#">WG2089926</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL   | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|-------|----------|----------|------------------|---------------------------|
|                                 | mg/kg  |           | mg/kg | mg/kg    |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | 2.74   | B         | 0.848 | 2.50     | 25       | 07/02/2023 22:20 | <a href="#">WG2088424</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 96.4   |           |       | 77.0-120 |          | 07/02/2023 22:20 | <a href="#">WG2088424</a> |

1 Cp

2 Tc

3 Ss

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

| Analyte                   | Result  | Qualifier | MDL      | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|---------|-----------|----------|----------|----------|------------------|---------------------------|
|                           | mg/kg   |           | mg/kg    | mg/kg    |          | date / time      |                           |
| Benzene                   | U       |           | 0.000467 | 0.00100  | 1        | 07/04/2023 01:01 | <a href="#">WG2088997</a> |
| Toluene                   | U       |           | 0.00130  | 0.00500  | 1        | 07/04/2023 01:01 | <a href="#">WG2088997</a> |
| Ethylbenzene              | 0.00105 | J         | 0.000737 | 0.00250  | 1        | 07/05/2023 20:35 | <a href="#">WG2089377</a> |
| Total Xylenes             | 0.00175 | J         | 0.000880 | 0.00650  | 1        | 07/05/2023 20:35 | <a href="#">WG2089377</a> |
| (S) Toluene-d8            | 120     |           |          | 75.0-131 |          | 07/04/2023 01:01 | <a href="#">WG2088997</a> |
| (S) Toluene-d8            | 122     |           |          | 75.0-131 |          | 07/05/2023 20:35 | <a href="#">WG2089377</a> |
| (S) 4-Bromofluorobenzene  | 94.0    |           |          | 67.0-138 |          | 07/04/2023 01:01 | <a href="#">WG2088997</a> |
| (S) 4-Bromofluorobenzene  | 85.8    |           |          | 67.0-138 |          | 07/05/2023 20:35 | <a href="#">WG2089377</a> |
| (S) 1,2-Dichloroethane-d4 | 92.7    |           |          | 70.0-130 |          | 07/04/2023 01:01 | <a href="#">WG2088997</a> |
| (S) 1,2-Dichloroethane-d4 | 93.8    |           |          | 70.0-130 |          | 07/05/2023 20:35 | <a href="#">WG2089377</a> |

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3943610-1 06/30/23 08:12

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1630913-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1630913-05 06/30/23 08:12 • (DUP) R3943610-3 06/30/23 08:12

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 79.0            | 79.3       | 1        | 0.485   |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3943610-2 06/30/23 08:12

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3943639-1 06/30/23 08:55

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1630920-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1630920-11 06/30/23 08:55 • (DUP) R3943639-3 06/30/23 08:55

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 79.3            | 80.3       | 1        | 1.27    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3943639-2 06/30/23 08:55

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3943688-1 06/30/23 12:26

| Analyte      | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
|              | %         |                     | %      | %      |
| Total Solids | 0.000     |                     |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1630609-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1630609-03 06/30/23 12:26 • (DUP) R3943688-3 06/30/23 12:26

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
|              | %               | %          |          | %       |                      | %              |
| Total Solids | 65.8            | 66.9       | 1        | 1.73    |                      | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3943688-2 06/30/23 12:26

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|--------------|--------------|------------|----------|-------------|----------------------|
|              | %            | %          | %        | %           |                      |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |                      |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3945624-4 07/06/23 22:13

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Mercury | U         |              | 0.0180 | 0.0400 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3945624-1 07/06/23 21:05

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------|--------------|------------|----------|-------------|---------------|
| Mercury | 0.500        | 0.502      | 100      | 80.0-120    |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1631390-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1631390-04 07/06/23 21:07 • (MS) R3945624-2 07/06/23 21:10 • (MSD) R3945624-3 07/06/23 21:12

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Mercury | 0.513              | 0.103                 | 0.609           | 0.573            | 98.5    | 91.5     | 1        | 75.0-125    |              |               | 6.07 | 20         |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3945736-1 07/06/23 22:02

| Analyte  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Arsenic  | U                  |              | 0.518           | 2.00            |
| Barium   | U                  |              | 0.0852          | 0.500           |
| Cadmium  | U                  |              | 0.0471          | 0.500           |
| Chromium | U                  |              | 0.133           | 1.00            |
| Lead     | U                  |              | 0.208           | 0.500           |
| Selenium | U                  |              | 0.764           | 2.00            |
| Silver   | U                  |              | 0.127           | 1.00            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3945736-2 07/06/23 22:04

| Analyte  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic  | 100                   | 105                 | 105           | 80.0-120         |               |
| Barium   | 100                   | 109                 | 109           | 80.0-120         |               |
| Cadmium  | 100                   | 104                 | 104           | 80.0-120         |               |
| Chromium | 100                   | 105                 | 105           | 80.0-120         |               |
| Lead     | 100                   | 104                 | 104           | 80.0-120         |               |
| Selenium | 100                   | 103                 | 103           | 80.0-120         |               |
| Silver   | 20.0                  | 20.4                | 102           | 80.0-120         |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1631504-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1631504-06 07/06/23 22:07 • (MS) R3945736-5 07/06/23 22:15 • (MSD) R3945736-6 07/06/23 22:17

| Analyte  | Spike Amount (dry)<br>mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|-----------------------------|-----------------------|-----------------|------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic  | 117                         | 5.39                  | 109             | 121              | 88.6         | 98.8          | 1        | 75.0-125         |              |               | 10.3     | 20              |
| Barium   | 117                         | 54.2                  | 180             | 185              | 108          | 111           | 1        | 75.0-125         |              |               | 2.28     | 20              |
| Cadmium  | 117                         | 0.127                 | 104             | 115              | 88.6         | 97.9          | 1        | 75.0-125         |              |               | 10.0     | 20              |
| Chromium | 117                         | 13.3                  | 117             | 131              | 88.2         | 100           | 1        | 75.0-125         |              |               | 11.2     | 20              |
| Lead     | 117                         | 4.96                  | 113             | 125              | 92.3         | 102           | 1        | 75.0-125         |              |               | 9.82     | 20              |
| Selenium | 117                         | 0.994                 | 102             | 114              | 85.6         | 96.0          | 1        | 75.0-125         |              |               | 11.3     | 20              |
| Silver   | 23.5                        | U                     | 20.7            | 23.2             | 88.2         | 98.7          | 1        | 75.0-125         |              |               | 11.3     | 20              |

Method Blank (MB)

(MB) R3946529-1 07/08/23 23:27

| Analyte  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Arsenic  | U                  |              | 0.518           | 2.00            |
| Barium   | U                  |              | 0.0852          | 0.500           |
| Cadmium  | U                  |              | 0.0471          | 0.500           |
| Chromium | U                  |              | 0.133           | 1.00            |
| Lead     | U                  |              | 0.208           | 0.500           |
| Selenium | U                  |              | 0.764           | 2.00            |
| Silver   | U                  |              | 0.127           | 1.00            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

Laboratory Control Sample (LCS)

(LCS) R3946529-2 07/08/23 23:29

| Analyte  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Arsenic  | 100                   | 97.7                | 97.7          | 80.0-120         |               |
| Barium   | 100                   | 102                 | 102           | 80.0-120         |               |
| Cadmium  | 100                   | 96.6                | 96.6          | 80.0-120         |               |
| Chromium | 100                   | 98.5                | 98.5          | 80.0-120         |               |
| Lead     | 100                   | 96.9                | 96.9          | 80.0-120         |               |
| Selenium | 100                   | 97.0                | 97.0          | 80.0-120         |               |
| Silver   | 20.0                  | 19.2                | 95.9          | 80.0-120         |               |

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

L1631329-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1631329-01 07/08/23 23:32 • (MS) R3946529-5 07/08/23 23:39 • (MSD) R3946529-6 07/08/23 23:42

| Analyte  | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic  | 105                            | 1.57                              | 91.3                     | 91.4                         | 85.2         | 85.3          | 1        | 75.0-125         |              |               | 0.0716   | 20              |
| Barium   | 105                            | 212                               | 256                      | 346                          | 41.6         | 127           | 1        | 75.0-125         | J6           | J3 J5         | 29.8     | 20              |
| Cadmium  | 105                            | U                                 | 89.6                     | 90.1                         | 85.1         | 85.5          | 1        | 75.0-125         |              |               | 0.491    | 20              |
| Chromium | 105                            | 18.6                              | 102                      | 103                          | 79.0         | 80.1          | 1        | 75.0-125         |              |               | 1.23     | 20              |
| Lead     | 105                            | 12.4                              | 99.7                     | 99.1                         | 82.9         | 82.4          | 1        | 75.0-125         |              |               | 0.572    | 20              |
| Selenium | 105                            | U                                 | 88.2                     | 88.7                         | 83.7         | 84.2          | 1        | 75.0-125         |              |               | 0.561    | 20              |
| Silver   | 21.1                           | U                                 | 17.6                     | 17.9                         | 83.6         | 85.0          | 1        | 75.0-125         |              |               | 1.70     | 20              |

Method Blank (MB)

(MB) R3945684-2 07/02/23 20:46

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 2.25               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 95.9               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3945684-1 07/02/23 18:21

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 3.92                | 71.3          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 96.7          | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3944629-2 07/03/23 13:00

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | U                  |              | 0.0339          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.0               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3944629-1 07/03/23 12:10

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 4.44                | 80.7          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 108           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3944886-3 07/03/23 11:06

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 109       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 101       |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 95.3      |              |          | 70.0-130 |

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

(LCS) R3944886-1 07/03/23 09:31 • (LCSD) R3944886-2 07/03/23 09:50

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 0.125        | 0.134      | 0.130       | 107      | 104       | 70.0-123    |               |                | 3.03  | 20         |
| Toluene                          | 0.125        | 0.141      | 0.137       | 113      | 110       | 75.0-121    |               |                | 2.88  | 20         |
| Ethylbenzene                     | 0.125        | 0.132      | 0.133       | 106      | 106       | 74.0-126    |               |                | 0.755 | 20         |
| Total Xylenes                    | 0.375        | 0.384      | 0.393       | 102      | 105       | 72.0-127    |               |                | 2.32  | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 104      | 104       | 75.0-131    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 98.1     | 100       | 67.0-138    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 96.8     | 104       | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3945761-3 07/03/23 11:25

| Analyte                          | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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         |
| <i>(S) Toluene-d8</i>            | 114                |              |                 | 75.0-131        |
| <i>(S) 4-Bromofluorobenzene</i>  | 95.3               |              |                 | 67.0-138        |
| <i>(S) 1,2-Dichloroethane-d4</i> | 90.9               |              |                 | 70.0-130        |

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

(LCS) R3945761-1 07/03/23 09:49 • (LCSD) R3945761-2 07/03/23 10:08

| Analyte                          | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                          | 0.125                 | 0.125               | 0.123                | 100           | 98.4           | 70.0-123         |               |                | 1.61     | 20              |
| Toluene                          | 0.125                 | 0.127               | 0.122                | 102           | 97.6           | 75.0-121         |               |                | 4.02     | 20              |
| Ethylbenzene                     | 0.125                 | 0.144               | 0.140                | 115           | 112            | 74.0-126         |               |                | 2.82     | 20              |
| Total Xylenes                    | 0.375                 | 0.429               | 0.411                | 114           | 110            | 72.0-127         |               |                | 4.29     | 20              |
| <i>(S) Toluene-d8</i>            |                       |                     |                      | 106           | 103            | 75.0-131         |               |                |          |                 |
| <i>(S) 4-Bromofluorobenzene</i>  |                       |                     |                      | 103           | 105            | 67.0-138         |               |                |          |                 |
| <i>(S) 1,2-Dichloroethane-d4</i> |                       |                     |                      | 98.9          | 98.5           | 70.0-130         |               |                |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3944579-3 07/03/23 21:24

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 114       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 96.9      |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 89.7      |              |          | 70.0-130 |

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

(LCS) R3944579-1 07/03/23 19:51 • (LCSD) R3944579-2 07/03/23 20:09

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %    | %          |
| Benzene                          | 0.125        | 0.132      | 0.122       | 106      | 97.6      | 70.0-123    |               |                | 7.87 | 20         |
| Toluene                          | 0.125        | 0.132      | 0.124       | 106      | 99.2      | 75.0-121    |               |                | 6.25 | 20         |
| Ethylbenzene                     | 0.125        | 0.129      | 0.120       | 103      | 96.0      | 74.0-126    |               |                | 7.23 | 20         |
| Total Xylenes                    | 0.375        | 0.389      | 0.375       | 104      | 100       | 72.0-127    |               |                | 3.66 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 105      | 109       | 75.0-131    |               |                |      |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 92.9     | 100       | 67.0-138    |               |                |      |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 95.2     | 94.6      | 70.0-130    |               |                |      |            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3945186-3 07/05/23 16:15

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 117                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 94.1               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 100                |              |                 | 70.0-130        |

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

(LCS) R3945186-1 07/05/23 14:48 • (LCSD) R3945186-2 07/05/23 15:09

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Ethylbenzene              | 0.125                 | 0.129               | 0.131                | 103           | 105            | 74.0-126         |               |                | 1.54     | 20              |
| Total Xylenes             | 0.375                 | 0.367               | 0.378                | 97.9          | 101            | 72.0-127         |               |                | 2.95     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 113           | 112            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 97.8          | 96.3           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 108           | 108            | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3945910-3 07/06/23 10:13

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 97.2               |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 94.1               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 105                |              |                 | 70.0-130        |

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

(LCS) R3945910-1 07/06/23 08:35 • (LCSD) R3945910-2 07/06/23 08:55

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Total Xylenes             | 0.375                 | 0.357               | 0.392                | 95.2          | 105            | 72.0-127         |               |                | 9.35     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 90.9          | 95.1           | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 97.7          | 94.6           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 113           | 109            | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3946090-3 07/07/23 10:28

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 108       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 96.3      |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 94.8      |              |          | 70.0-130 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

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

(LCS) R3946090-1 07/07/23 08:54 • (LCSD) R3946090-2 07/07/23 09:13

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 0.125        | 0.115      | 0.114       | 92.0     | 91.2      | 70.0-123    |               |                | 0.873 | 20         |
| Toluene                          | 0.125        | 0.112      | 0.111       | 89.6     | 88.8      | 75.0-121    |               |                | 0.897 | 20         |
| Ethylbenzene                     | 0.125        | 0.111      | 0.110       | 88.8     | 88.0      | 74.0-126    |               |                | 0.905 | 20         |
| Total Xylenes                    | 0.375        | 0.333      | 0.325       | 88.8     | 86.7      | 72.0-127    |               |                | 2.43  | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 102      | 102       | 75.0-131    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 100      | 101       | 67.0-138    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 101      | 100       | 70.0-130    |               |                |       |            |

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3945066-1 07/05/23 18:03

| Analyte                       | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------------|--------------------|--------------|-----------------|-----------------|
| Diesel Range Organics (DRO)   | U                  |              | 1.33            | 4.00            |
| Residual Range Organics (RRO) | U                  |              | 3.33            | 10.0            |
| <i>(S) o-Terphenyl</i>        | 65.0               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3945066-2 07/05/23 18:16

| Analyte                     | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Diesel Range Organics (DRO) | 50.0                  | 29.0                | 58.0          | 50.0-150         |               |
| <i>(S) o-Terphenyl</i>      |                       |                     | 66.7          | 18.0-148         |               |

L1630909-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1630909-08 07/05/23 18:28 • (MS) R3945066-3 07/05/23 18:41 • (MSD) R3945066-4 07/05/23 18:53

| Analyte                     | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Diesel Range Organics (DRO) | 62.1                        | 52.3                           | 63.4                     | 136                       | 17.8         | 135           | 1        | 50.0-150         | J6           | J3            | 72.8     | 20              |
| <i>(S) o-Terphenyl</i>      |                             |                                |                          |                           | 52.1         | 64.9          |          | 18.0-148         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3945430-2 07/05/23 14:59

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene             | U                  |              | 0.00230         | 0.00600         |
| Acenaphthene           | U                  |              | 0.00209         | 0.00600         |
| Acenaphthylene         | U                  |              | 0.00216         | 0.00600         |
| Benzo(a)anthracene     | U                  |              | 0.00173         | 0.00600         |
| Benzo(a)pyrene         | U                  |              | 0.00179         | 0.00600         |
| Benzo(b)fluoranthene   | U                  |              | 0.00153         | 0.00600         |
| Benzo(g,h,i)perylene   | U                  |              | 0.00177         | 0.00600         |
| Benzo(k)fluoranthene   | U                  |              | 0.00215         | 0.00600         |
| Chrysene               | U                  |              | 0.00232         | 0.00600         |
| Dibenz(a,h)anthracene  | U                  |              | 0.00172         | 0.00600         |
| Fluoranthene           | U                  |              | 0.00227         | 0.00600         |
| Fluorene               | U                  |              | 0.00205         | 0.00600         |
| Indeno(1,2,3-cd)pyrene | U                  |              | 0.00181         | 0.00600         |
| Naphthalene            | U                  |              | 0.00408         | 0.0200          |
| Phenanthrene           | U                  |              | 0.00231         | 0.00600         |
| Pyrene                 | U                  |              | 0.00200         | 0.00600         |
| 1-Methylnaphthalene    | U                  |              | 0.00449         | 0.0200          |
| 2-Methylnaphthalene    | U                  |              | 0.00427         | 0.0200          |
| 2-Chloronaphthalene    | U                  |              | 0.00466         | 0.0200          |
| (S) p-Terphenyl-d14    | 84.5               |              |                 | 23.0-120        |
| (S) Nitrobenzene-d5    | 104                |              |                 | 14.0-149        |
| (S) 2-Fluorobiphenyl   | 80.5               |              |                 | 34.0-125        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3945430-1 07/05/23 14:41

| Analyte               | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene            | 0.0800                | 0.0656              | 82.0          | 50.0-126         |               |
| Acenaphthene          | 0.0800                | 0.0606              | 75.8          | 50.0-120         |               |
| Acenaphthylene        | 0.0800                | 0.0658              | 82.3          | 50.0-120         |               |
| Benzo(a)anthracene    | 0.0800                | 0.0693              | 86.6          | 45.0-120         |               |
| Benzo(a)pyrene        | 0.0800                | 0.0562              | 70.3          | 42.0-120         |               |
| Benzo(b)fluoranthene  | 0.0800                | 0.0563              | 70.4          | 42.0-121         |               |
| Benzo(g,h,i)perylene  | 0.0800                | 0.0509              | 63.6          | 45.0-125         |               |
| Benzo(k)fluoranthene  | 0.0800                | 0.0540              | 67.5          | 49.0-125         |               |
| Chrysene              | 0.0800                | 0.0601              | 75.1          | 49.0-122         |               |
| Dibenz(a,h)anthracene | 0.0800                | 0.0537              | 67.1          | 47.0-125         |               |
| Fluoranthene          | 0.0800                | 0.0665              | 83.1          | 49.0-129         |               |

Laboratory Control Sample (LCS)

(LCS) R3945430-1 07/05/23 14:41

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene               | 0.0800                | 0.0634              | 79.3          | 49.0-120         |               |
| Indeno(1,2,3-cd)pyrene | 0.0800                | 0.0633              | 79.1          | 46.0-125         |               |
| Naphthalene            | 0.0800                | 0.0610              | 76.3          | 50.0-120         |               |
| Phenanthrene           | 0.0800                | 0.0598              | 74.8          | 47.0-120         |               |
| Pyrene                 | 0.0800                | 0.0631              | 78.9          | 43.0-123         |               |
| 1-Methylnaphthalene    | 0.0800                | 0.0627              | 78.4          | 51.0-121         |               |
| 2-Methylnaphthalene    | 0.0800                | 0.0665              | 83.1          | 50.0-120         |               |
| 2-Chloronaphthalene    | 0.0800                | 0.0584              | 73.0          | 50.0-120         |               |
| (S) p-Terphenyl-d14    |                       |                     | 81.8          | 23.0-120         |               |
| (S) Nitrobenzene-d5    |                       |                     | 99.0          | 14.0-149         |               |
| (S) 2-Fluorobiphenyl   |                       |                     | 78.2          | 34.0-125         |               |

L1630935-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1630935-02 07/05/23 20:21 • (MS) R3945430-3 07/05/23 20:38 • (MSD) R3945430-4 07/05/23 20:56

| Analyte                | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene             | 0.0788                | U                        | 0.0544             | 0.0518              | 69.0         | 66.1          | 1        | 10.0-145         |              |               | 4.90     | 30              |
| Acenaphthene           | 0.0788                | U                        | 0.0532             | 0.0514              | 67.5         | 65.6          | 1        | 14.0-127         |              |               | 3.44     | 27              |
| Acenaphthylene         | 0.0788                | U                        | 0.0546             | 0.0530              | 69.3         | 67.6          | 1        | 21.0-124         |              |               | 2.97     | 25              |
| Benzo(a)anthracene     | 0.0788                | 0.00534                  | 0.0605             | 0.0580              | 70.0         | 67.2          | 1        | 10.0-139         |              |               | 4.22     | 30              |
| Benzo(a)pyrene         | 0.0788                | 0.00523                  | 0.0568             | 0.0554              | 65.4         | 64.0          | 1        | 10.0-141         |              |               | 2.50     | 31              |
| Benzo(b)fluoranthene   | 0.0788                | 0.00645                  | 0.0544             | 0.0522              | 60.9         | 58.4          | 1        | 10.0-140         |              |               | 4.13     | 36              |
| Benzo(g,h,i)perylene   | 0.0788                | 0.00436                  | 0.0516             | 0.0495              | 59.9         | 57.6          | 1        | 10.0-140         |              |               | 4.15     | 33              |
| Benzo(k)fluoranthene   | 0.0788                | 0.00237                  | 0.0504             | 0.0496              | 61.0         | 60.2          | 1        | 10.0-137         |              |               | 1.60     | 31              |
| Chrysene               | 0.0788                | 0.00536                  | 0.0561             | 0.0528              | 64.4         | 60.5          | 1        | 10.0-145         |              |               | 6.06     | 30              |
| Dibenz(a,h)anthracene  | 0.0788                | U                        | 0.0494             | 0.0478              | 62.7         | 61.0          | 1        | 10.0-132         |              |               | 3.29     | 31              |
| Fluoranthene           | 0.0788                | 0.0124                   | 0.0620             | 0.0581              | 62.9         | 58.3          | 1        | 10.0-153         |              |               | 6.49     | 33              |
| Fluorene               | 0.0788                | U                        | 0.0543             | 0.0527              | 68.9         | 67.2          | 1        | 11.0-130         |              |               | 2.99     | 29              |
| Indeno(1,2,3-cd)pyrene | 0.0788                | 0.00493                  | 0.0591             | 0.0570              | 68.7         | 66.4          | 1        | 10.0-137         |              |               | 3.62     | 32              |
| Naphthalene            | 0.0788                | U                        | 0.0530             | 0.0521              | 67.3         | 66.5          | 1        | 10.0-135         |              |               | 1.71     | 27              |
| Phenanthrene           | 0.0788                | 0.00656                  | 0.0547             | 0.0523              | 61.1         | 58.3          | 1        | 10.0-144         |              |               | 4.49     | 31              |
| Pyrene                 | 0.0788                | 0.0113                   | 0.0605             | 0.0581              | 62.4         | 59.7          | 1        | 10.0-148         |              |               | 4.05     | 35              |
| 1-Methylnaphthalene    | 0.0788                | U                        | 0.0560             | 0.0543              | 71.1         | 69.3          | 1        | 10.0-142         |              |               | 3.08     | 28              |
| 2-Methylnaphthalene    | 0.0788                | U                        | 0.0572             | 0.0562              | 72.6         | 71.7          | 1        | 10.0-137         |              |               | 1.76     | 28              |
| 2-Chloronaphthalene    | 0.0788                | U                        | 0.0496             | 0.0476              | 62.9         | 60.7          | 1        | 29.0-120         |              |               | 4.12     | 24              |
| (S) p-Terphenyl-d14    |                       |                          |                    |                     | 71.7         | 68.7          |          | 23.0-120         |              |               |          |                 |
| (S) Nitrobenzene-d5    |                       |                          |                    |                     | 82.0         | 83.1          |          | 14.0-149         |              |               |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                          |                    |                     | 66.6         | 64.5          |          | 34.0-125         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC15 • File ID: 0702\_06

07/02/23 17:46

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0702_06 | 247556700           | 85655               |
| Upper Limit                    |         | 495113400           | 171310              |
| Lower Limit                    |         | 123778400           | 42828               |
| LCS R3945684-1 WG2088424 1x    | 0702_07 | 257866900           | 97418               |
| BLANK R3945684-2 WG2088424 25x | 0702_11 | 215642300           | 71147               |
| L1630920-13 WG2088424 25x      | 0702_12 | 212043900           | 40335               |
| L1630920-01 WG2088424 25x      | 0702_19 | 216757900           | 65758               |
| L1630920-04 WG2088424 25x      | 0702_20 | 226419700           | 16811               |
| L1630920-10 WG2088424 25x      | 0702_21 | 252524200           | 52460               |
| L1630920-05 WG2088424 290x     | 0702_22 | 248460100           | 132814              |
| L1630920-08 WG2088424 250x     | 0702_23 | 239579300           | 132547              |
| L1630920-02 WG2088424 500x     | 0702_24 | 252757200           | 64774               |
| L1630920-06 WG2088424 500x     | 0702_25 | 260080800           | 98581               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCGC17 • File ID: 0703\_03

07/03/23 11:52

| Sample ID                     | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|-------------------------------|---------|---------------------|---------------------|
|                               |         | Response            | Response            |
| Standard                      | 0703_03 | 354785700           | 354785700           |
| Upper Limit                   |         | 709571400           | 709571400           |
| Lower Limit                   |         | 177392800           | 177392800           |
| LCS R3944629-1 WG2088675 1x   | 0703_04 | 391396700           | 391396700           |
| BLANK R3944629-2 WG2088675 1x | 0703_06 | 286983900           | 286983900           |
| L1630920-03 WG2088675 1000x   | 0703_22 | 325815200           | 325815200           |
| L1630920-07 WG2088675 1000x   | 0703_23 | 323330000           | 323330000           |
| L1630920-09 WG2088675 1000x   | 0703_24 | 332566200           | 332566200           |
| L1630920-11 WG2088675 1000x   | 0703_25 | 322188600           | 322188600           |
| L1630920-12 WG2088675 1000x   | 0703_26 | 361692200           | 361692200           |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS37 • File ID: 0706\_02-2

07/06/23 08:35

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0706_02-2   | 734116.10                      | 334086.70                         | 288742.50                               |
| Upper Limit                   |             | 1468232                        | 668173                            | 577485                                  |
| Lower Limit                   |             | 367058                         | 167043                            | 144371                                  |
| LCS R3945910-1 WG2089926 1x   | 0706_02LCSC | 734116.10                      | 334086.70                         | 288742.50                               |
| LCSD R3945910-2 WG2089926 1x  | 0706_03C    | 714981                         | 316920.70                         | 276914.80                               |
| BLANK R3945910-3 WG2089926 1x | 0706_07C    | 703018.60                      | 305813.20                         | 244473.40                               |
| L1630920-09 WG2089926 1000x   | 0706_12     | 736807.80                      | 312208.60                         | 268556.70                               |
| L1630920-11 WG2089926 1000x   | 0706_13     | 743690.20                      | 312726.30                         | 270036.80                               |
| L1630920-12 WG2089926 800x    | 0706_14     | 760238.10                      | 338020.70                         | 285966.60                               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Instrument: VOCMS39 • File ID: 0705\_14-3

07/05/23 14:48

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0705_14-3   | 511513.80                      | 189318.30                         | 193096.90                               |
| Upper Limit                   |             | 1023028                        | 378637                            | 386194                                  |
| Lower Limit                   |             | 255757                         | 94659                             | 96548                                   |
| LCS R3945186-1 WG2089377 1x   | 0705_14LCSA | 511513.80                      | 189318.30                         | 193096.90                               |
| LCSD R3945186-2 WG2089377 1x  | 0705_15A    | 516576.80                      | 190625.40                         | 186150                                  |
| BLANK R3945186-3 WG2089377 1x | 0705_18     | 504829.30                      | 182855                            | 173777.10                               |
| L1630920-13 WG2089377 1x      | 0705_23     | 459272.10                      | 156370.60                         | 140253.50                               |

## Instrument: VOCMS40 • File ID: 0703\_31-1

07/03/23 19:51

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_31-1  | 381284.70                      | 176231.10                         | 180128.40                               |
| Upper Limit                   |            | 762569                         | 352462                            | 360257                                  |
| Lower Limit                   |            | 190642                         | 88116                             | 90064                                   |
| LCS R3944579-1 WG2088997 1x   | 0703_31LCS | 381284.70                      | 176231.10                         | 180128.40                               |
| LCSD R3944579-2 WG2088997 1x  | 0703_32    | 332045.90                      | 150817.10                         | 153077.70                               |
| BLANK R3944579-3 WG2088997 1x | 0703_36    | 346377                         | 146272.50                         | 150264.50                               |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS40 • File ID: 0703\_31-1

07/03/23 19:51

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1630920-13 WG2088997 1x    | 0703_39 | 437186.60                      | 173773.80                         | 153500.60                               |
| L1630920-10 WG2088997 1.06x | 0703_42 | 493404.30                      | 209513.10                         | 239000.30                               |
| L1630920-09 WG2088997 80x   | 0703_53 | 435264.60                      | 192505.80                         | 227597.40                               |
| L1630920-11 WG2088997 80x   | 0703_54 | 416410                         | 202952.50                         | 243246.60                               |
| L1630920-12 WG2088997 80x   | 0703_55 | 381018.90                      | 187621.40                         | 229185                                  |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

## Instrument: VOCMS42 • File ID: 0703\_02

07/03/23 09:31

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_02     | 751369.30                      | 369468.80                         | 260447.70                               |
| Upper Limit                   |             | 1502739                        | 738938                            | 520895                                  |
| Lower Limit                   |             | 375685                         | 184734                            | 130224                                  |
| LCS R3944886-1 WG2088619 1x   | 0703_02LCSA | 751369.30                      | 369468.80                         | 260447.70                               |
| LCSD R3944886-2 WG2088619 1x  | 0703_03A    | 767670.60                      | 388845.30                         | 288876.40                               |
| BLANK R3944886-3 WG2088619 1x | 0703_07A    | 801365.80                      | 382654.60                         | 287682.30                               |
| L1630920-01 WG2088619 1x      | 0703_27     | 893989.80                      | 411321.40                         | 322191.10                               |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Instrument: VOCMS54 • File ID: 0703\_02-1

07/03/23 09:49

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_02-1  | 724034.80                      | 338665.50                         | 287537.40                               |
| Upper Limit                   |            | 1448070                        | 677331                            | 575075                                  |
| Lower Limit                   |            | 362017                         | 169333                            | 143769                                  |
| LCS R3945761-1 WG2088725 1x   | 0703_02LCS | 724034.80                      | 338665.50                         | 287537.40                               |
| LCSD R3945761-2 WG2088725 1x  | 0703_03    | 730721.80                      | 357303.30                         | 307950                                  |
| BLANK R3945761-3 WG2088725 1x | 0703_07    | 758295.10                      | 318421.40                         | 222760.30                               |
| L1630920-04 WG2088725 3.33x   | 0703_14    | 681300.70                      | 306768.70                         | 220685.50                               |
| L1630920-02 WG2088725 40x     | 0703_22    | 729835.80                      | 331094.80                         | 288006.40                               |
| L1630920-03 WG2088725 80x     | 0703_23    | 766482.80                      | 354033.20                         | 313153.60                               |
| L1630920-06 WG2088725 41.2x   | 0703_25    | 772257                         | 362521.40                         | 326728.90                               |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS54 • File ID: 0703\_02-1

07/03/23 09:49

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1630920-07 WG2088725 80.8x | 0703_26 | 774453.90                      | 367556                            | 314728.20                               |
| L1630920-08 WG2088725 20x   | 0703_27 | 784460.10                      | 357980.80                         | 308198.90                               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

## Instrument: VOCMS56 • File ID: 0707\_02-1

07/07/23 08:54

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0707_02-1  | 1252024                        | 619549.60                         | 577283.60                               |
| Upper Limit                   |            | 2504048                        | 1239099                           | 1154567                                 |
| Lower Limit                   |            | 626012                         | 309775                            | 288642                                  |
| LCS R3946090-1 WG2090778 1x   | 0707_02LCS | 1252024                        | 619549.60                         | 577283.60                               |
| LCSD R3946090-2 WG2090778 1x  | 0707_03    | 1325574                        | 656523.10                         | 610584.90                               |
| BLANK R3946090-3 WG2090778 1x | 0707_07    | 1338176                        | 617878.10                         | 543698                                  |
| L1630920-05 WG2090778 4.24x   | 0707_08    | 1466890                        | 683083.70                         | 643254.60                               |
| L1630920-02 WG2090778 400x    | 0707_09    | 1277228                        | 621045.10                         | 575692.20                               |

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC15 • File ID: 0702\_06

07/02/23 17:46

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0702_06 | 247556700           | 85655               |
| Upper Limit                    |         | 495113400           | 171310              |
| Lower Limit                    |         | 123778400           | 42828               |
| LCS R3945684-1 WG2088424 1x    | 0702_07 | 257866900           | 97418               |
| BLANK R3945684-2 WG2088424 25x | 0702_11 | 215642300           | 71147               |
| L1630920-13 WG2088424 25x      | 0702_12 | 212043900           | 40335               |
| L1630920-01 WG2088424 25x      | 0702_19 | 216757900           | 65758               |
| L1630920-04 WG2088424 25x      | 0702_20 | 226419700           | 16811               |
| L1630920-10 WG2088424 25x      | 0702_21 | 252524200           | 52460               |
| L1630920-05 WG2088424 290x     | 0702_22 | 248460100           | 132814              |
| L1630920-08 WG2088424 250x     | 0702_23 | 239579300           | 132547              |
| L1630920-02 WG2088424 500x     | 0702_24 | 252757200           | 64774               |
| L1630920-06 WG2088424 500x     | 0702_25 | 260080800           | 98581               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Instrument: VOCGC17 • File ID: 0703\_03

07/03/23 11:52

| Sample ID                     | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|-------------------------------|---------|---------------------|---------------------|
|                               |         | Response            | Response            |
| Standard                      | 0703_03 | 354785700           | 354785700           |
| Upper Limit                   |         | 709571400           | 709571400           |
| Lower Limit                   |         | 177392800           | 177392800           |
| LCS R3944629-1 WG2088675 1x   | 0703_04 | 391396700           | 391396700           |
| BLANK R3944629-2 WG2088675 1x | 0703_06 | 286983900           | 286983900           |
| L1630920-03 WG2088675 1000x   | 0703_22 | 325815200           | 325815200           |
| L1630920-07 WG2088675 1000x   | 0703_23 | 323330000           | 323330000           |
| L1630920-09 WG2088675 1000x   | 0703_24 | 332566200           | 332566200           |
| L1630920-11 WG2088675 1000x   | 0703_25 | 322188600           | 322188600           |
| L1630920-12 WG2088675 1000x   | 0703_26 | 361692200           | 361692200           |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS37 • File ID: 0706\_02-2

07/06/23 08:35

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0706_02-2   | 734116.10                      | 334086.70                         | 288742.50                               |
| Upper Limit                   |             | 1468232                        | 668173                            | 577485                                  |
| Lower Limit                   |             | 367058                         | 167043                            | 144371                                  |
| LCS R3945910-1 WG2089926 1x   | 0706_02LCSC | 734116.10                      | 334086.70                         | 288742.50                               |
| LCSD R3945910-2 WG2089926 1x  | 0706_03C    | 714981                         | 316920.70                         | 276914.80                               |
| BLANK R3945910-3 WG2089926 1x | 0706_07C    | 703018.60                      | 305813.20                         | 244473.40                               |
| L1630920-09 WG2089926 1000x   | 0706_12     | 736807.80                      | 312208.60                         | 268556.70                               |
| L1630920-11 WG2089926 1000x   | 0706_13     | 743690.20                      | 312726.30                         | 270036.80                               |
| L1630920-12 WG2089926 800x    | 0706_14     | 760238.10                      | 338020.70                         | 285966.60                               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

## Instrument: VOCMS39 • File ID: 0705\_14-3

07/05/23 14:48

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0705_14-3   | 511513.80                      | 189318.30                         | 193096.90                               |
| Upper Limit                   |             | 1023028                        | 378637                            | 386194                                  |
| Lower Limit                   |             | 255757                         | 94659                             | 96548                                   |
| LCS R3945186-1 WG2089377 1x   | 0705_14LCSA | 511513.80                      | 189318.30                         | 193096.90                               |
| LCSD R3945186-2 WG2089377 1x  | 0705_15A    | 516576.80                      | 190625.40                         | 186150                                  |
| BLANK R3945186-3 WG2089377 1x | 0705_18     | 504829.30                      | 182855                            | 173777.10                               |
| L1630920-13 WG2089377 1x      | 0705_23     | 459272.10                      | 156370.60                         | 140253.50                               |

8 Gl

9 Al

10 Sc

## Instrument: VOCMS40 • File ID: 0703\_31-1

07/03/23 19:51

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_31-1  | 381284.70                      | 176231.10                         | 180128.40                               |
| Upper Limit                   |            | 762569                         | 352462                            | 360257                                  |
| Lower Limit                   |            | 190642                         | 88116                             | 90064                                   |
| LCS R3944579-1 WG2088997 1x   | 0703_31LCS | 381284.70                      | 176231.10                         | 180128.40                               |
| LCSD R3944579-2 WG2088997 1x  | 0703_32    | 332045.90                      | 150817.10                         | 153077.70                               |
| BLANK R3944579-3 WG2088997 1x | 0703_36    | 346377                         | 146272.50                         | 150264.50                               |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS40 • File ID: 0703\_31-1

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1630920-13 WG2088997 1x    | 0703_39 | 437186.60                      | 173773.80                         | 153500.60                               |
| L1630920-10 WG2088997 1.06x | 0703_42 | 493404.30                      | 209513.10                         | 239000.30                               |
| L1630920-09 WG2088997 80x   | 0703_53 | 435264.60                      | 192505.80                         | 227597.40                               |
| L1630920-11 WG2088997 80x   | 0703_54 | 416410                         | 202952.50                         | 243246.60                               |
| L1630920-12 WG2088997 80x   | 0703_55 | 381018.90                      | 187621.40                         | 229185                                  |



## Instrument: VOCMS42 • File ID: 0703\_02

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_02     | 751369.30                      | 369468.80                         | 260447.70                               |
| Upper Limit                   |             | 1502739                        | 738938                            | 520895                                  |
| Lower Limit                   |             | 375685                         | 184734                            | 130224                                  |
| LCS R3944886-1 WG2088619 1x   | 0703_02LCSA | 751369.30                      | 369468.80                         | 260447.70                               |
| LCSD R3944886-2 WG2088619 1x  | 0703_03A    | 767670.60                      | 388845.30                         | 288876.40                               |
| BLANK R3944886-3 WG2088619 1x | 0703_07A    | 801365.80                      | 382654.60                         | 287682.30                               |
| L1630920-01 WG2088619 1x      | 0703_27     | 893989.80                      | 411321.40                         | 322191.10                               |

## Instrument: VOCMS54 • File ID: 0703\_02-1

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0703_02-1  | 724034.80                      | 338665.50                         | 287537.40                               |
| Upper Limit                   |            | 1448070                        | 677331                            | 575075                                  |
| Lower Limit                   |            | 362017                         | 169333                            | 143769                                  |
| LCS R3945761-1 WG2088725 1x   | 0703_02LCS | 724034.80                      | 338665.50                         | 287537.40                               |
| LCSD R3945761-2 WG2088725 1x  | 0703_03    | 730721.80                      | 357303.30                         | 307950                                  |
| BLANK R3945761-3 WG2088725 1x | 0703_07    | 758295.10                      | 318421.40                         | 222760.30                               |
| L1630920-04 WG2088725 3.33x   | 0703_14    | 681300.70                      | 306768.70                         | 220685.50                               |
| L1630920-02 WG2088725 40x     | 0703_22    | 729835.80                      | 331094.80                         | 288006.40                               |
| L1630920-03 WG2088725 80x     | 0703_23    | 766482.80                      | 354033.20                         | 313153.60                               |
| L1630920-06 WG2088725 41.2x   | 0703_25    | 772257                         | 362521.40                         | 326728.90                               |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS54 • File ID: 0703\_02-1

07/03/23 09:49

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1630920-07 WG2088725 80.8x | 0703_26 | 774453.90                      | 367556                            | 314728.20                               |
| L1630920-08 WG2088725 20x   | 0703_27 | 784460.10                      | 357980.80                         | 308198.90                               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

## Instrument: VOCMS56 • File ID: 0707\_02-1

07/07/23 08:54

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0707_02-1  | 1252024                        | 619549.60                         | 577283.60                               |
| Upper Limit                   |            | 2504048                        | 1239099                           | 1154567                                 |
| Lower Limit                   |            | 626012                         | 309775                            | 288642                                  |
| LCS R3946090-1 WG2090778 1x   | 0707_02LCS | 1252024                        | 619549.60                         | 577283.60                               |
| LCSD R3946090-2 WG2090778 1x  | 0707_03    | 1325574                        | 656523.10                         | 610584.90                               |
| BLANK R3946090-3 WG2090778 1x | 0707_07    | 1338176                        | 617878.10                         | 543698                                  |
| L1630920-05 WG2090778 4.24x   | 0707_08    | 1466890                        | 683083.70                         | 643254.60                               |
| L1630920-02 WG2090778 400x    | 0707_09    | 1277228                        | 621045.10                         | 575692.20                               |

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

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

Instrument: BNAMS25 • File ID: 0705A\_03

07/05/23 14:20

| Sample ID                     | File ID  | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|----------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0705A_03 | 27508                      | 15944                        | 28858                        | 26078                    | 25994                    |
| Upper Limit                   |          | 55016                      | 31888                        | 57716                        | 52156                    | 51988                    |
| Lower Limit                   |          | 13754                      | 7972                         | 14429                        | 13039                    | 12997                    |
| LCS R3945430-1 WG2089199 1x   | 0705A_04 | 29803                      | 17416                        | 31571                        | 28713                    | 28366                    |
| BLANK R3945430-2 WG2089199 1x | 0705A_05 | 28738                      | 16817                        | 30289                        | 27157                    | 26356                    |
| L1630920-02 WG2089199 1x      | 0705A_08 | 28791                      | 16989                        | 30038                        | 26024                    | 24713                    |
| L1630920-03 WG2089199 1x      | 0705A_09 | 30251                      | 17786                        | 31705                        | 27524                    | 25772                    |
| L1630920-08 WG2089199 1x      | 0705A_10 | 28306                      | 16254                        | 29078                        | 25403                    | 23729                    |
| L1630920-09 WG2089199 1x      | 0705A_11 | 28395                      | 16901                        | 29791                        | 26237                    | 23796                    |
| MS R3945430-3 WG2089199 1x    | 0705A_24 | 28121                      | 16372                        | 29015                        | 25333                    | 22969                    |
| MSD R3945430-4 WG2089199 1x   | 0705A_25 | 27988                      | 16346                        | 29018                        | 25114                    | 22535                    |

Instrument: BNAMS25 • File ID: 0706\_03

07/06/23 09:16

| Sample ID                 | File ID | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|---------------------------|---------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                  | 0706_03 | 26532                      | 15906                        | 29124                        | 26092                    | 27244                    |
| Upper Limit               |         | 53064                      | 31812                        | 58248                        | 52184                    | 54488                    |
| Lower Limit               |         | 13266                      | 7953                         | 14562                        | 13046                    | 13622                    |
| L1630920-09 WG2089199 10x | 0706_32 | 32093                      | 18564                        | 33448                        | 28773                    | 28369                    |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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

|    |  |
|----|--|
| B  | The same analyte is found in the associated blank.   |
| J  | The identification of the analyte is acceptable; the reported value is an estimate.                    |
| J2 | Surrogate recovery limits have been exceeded; values are outside lower control limits.                 |
| J3 | The associated batch QC was outside the established quality control range for precision.               |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
Accounts Payable  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page    of   



**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/hubs/pas-standard-terms.pdf>

SDG # **1630920**

**J022**

Acctnum: **STANTECBWA**

Template: **T232342**

Prelogin: **P1006484**

PM: **546 - Jared Starkey**

PB: **6/19/23 CAM**

Shipped Via:

Report to:  
**Stantec**

Email To: **zak.armacost@stantec.com**  
**MARK.SANZE@STANTEC.COM**

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **WESTPORT, WA**

Please Circle:  
 MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Z. ARMACOST**

Site/Facility ID #

P.O. #

Collected by (signature):

**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

| Sample ID  | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | MRCRA8 4ozClr-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | SV8270PAHSIM 4ozClr-NoPres | TS 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr |  |  |  |  |  |  |  |     |
|------------|-----------|----------|-------|---------|------|--------------|----------------------|----------------------------|------------------------------|----------------------------|------------------|--------------------------------|--|--|--|--|--|--|--|-----|
| TP-12-11.5 | G         | SS       | 11.5  | 6/26/23 | 1001 | 3            |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  |     |
| TP-11-11.0 |           | SS       | 11.0  |         | 1001 |              | X                    | X                          | X                            | X                          |                  | X                              |  |  |  |  |  |  |  | -01 |
| TP-1-8.0   |           | SS       | 8.0   |         | 1235 |              | X                    | X                          | X                            | X                          |                  | X                              |  |  |  |  |  |  |  | -02 |
| TP-14-3.5  |           | SS       | 3.5   |         | 1415 |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -03 |
| TP-14-13.5 |           | SS       | 13.5  |         | 1459 |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -04 |
| TP-13-8.0  |           | SS       | 8.0   |         | 1600 |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -05 |
| TP-10-3.0  |           | SS       | 3.0   |         | 1610 |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -06 |
| TP-10-7.5  | Y         | SS       | 7.5   |         | 1631 |              | X                    | X                          | X                            | X                          |                  | X                              |  |  |  |  |  |  |  | -07 |
| TP-6-7.5   |           | SS       | 7.5   | 6/27/23 | 0802 |              | X                    | X                          | X                            | X                          |                  | X                              |  |  |  |  |  |  |  | -08 |
| TP-4-8.5   |           | SS       | 8.5   | 6/27/23 | 0926 |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -09 |
|            |           |          |       |         |      |              |                      |                            | X                            |                            |                  | X                              |  |  |  |  |  |  |  | -10 |

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

Remarks:  
**5DAY TAT PLEASE**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **65255508 8540**

| Sample Receipt Checklist      |  |
|-------------------------------|--|
| COC Seal Present/Intact:      | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used:         | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable                 |  |
| VOA Zero Headspace:           | <input type="checkbox"/> Y <input type="checkbox"/> N            |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

Relinquished by: (Signature)

Date: **6/27/23**  
Time: **1600**

Received by: (Signature)

Trip Blank Received:  Yes /  No  
HCL / (Med)   
TBR **3**

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received by: (Signature)

Temp: **3.1**  
Bottles Received: **36**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received for lab by: (Signature)

Date: **06/29/23**  
Time: **0900**

Hold: \_\_\_\_\_  
Condition: **NCF / OK**

Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Report to:  
**Stantec**

Email To: zak.armacost@stantec.com,  
**MARC. SAUZE@STANTEC.COM**

Project Description:  
**Hungry Whale Test Pitting**

City/State Collected: **WESTPORT, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

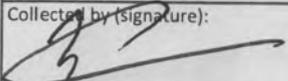
Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Z. ARMACOST**

Site/Facility ID #

P.O. #

Collected by (signature):  


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

Quote #

Immediately Packed on Ice N  Y

Date Results Needed

| Sample ID  | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | MRCRA8 4ozClr-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | SV8270PAHSIM 4ozClr-NoPres | TS 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr |
|------------|-----------|----------|-------|---------|------|--------------|----------------------|----------------------------|------------------------------|----------------------------|------------------|--------------------------------|
| TR-3-8:0   | G         | SS       | 8.0   | 6/27/23 | —    | 3            |                      |                            | X                            |                            |                  | X                              |
| DUP-01     | G         | SS       | —     | ↓       | —    | 3            |                      |                            | X                            |                            |                  | X                              |
| TRIP BLANK | G         | SS       | —     | ↓       | —    | 1            |                      |                            | X                            |                            |                  | X                              |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |
|            |           | SS       |       |         |      |              |                      |                            |                              |                            |                  |                                |

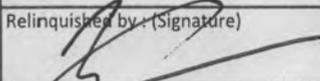
| Analysis / Container / Preservative  |  |  |  |  |  |  |  |  |  |  |  | Chain of Custody Page ___ of ___ |
|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------|
| <br><b>MT JULIET, TN</b><br>12065 Lebanon Rd Mount Juliet, TN 37122<br>Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:<br><a href="https://info.pacelabs.com/hubs/pas-standard-terms.pdf">https://info.pacelabs.com/hubs/pas-standard-terms.pdf</a> |  |  |  |  |  |  |  |  |  |  |  |                                  |
| SDG # <b>1630920</b>   |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Table #  |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Acctnum: <b>STANTECBWA</b>   |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Template: <b>T232342</b>   |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Prelogin: <b>P1006484</b>  |  |  |  |  |  |  |  |  |  |  |  |                                  |
| PM: <b>546 - Jared Starkey</b>   |  |  |  |  |  |  |  |  |  |  |  |                                  |
| PB: <b>019/23 cam</b>  |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Shipped Via:   |  |  |  |  |  |  |  |  |  |  |  |                                  |
| Remarks  |  |  |  |  |  |  |  |  |  |  |  | Sample # (lab only)              |
|  |  |  |  |  |  |  |  |  |  |  |  | 11                               |
|  |  |  |  |  |  |  |  |  |  |  |  | 12                               |
|  |  |  |  |  |  |  |  |  |  |  |  | 13                               |

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

Remarks:  
**5 DAY TAX PLEASE**

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | NP <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Correct bottles used:         | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| If Applicable                 |   |
| VOA Zero Headspace:           | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Preservation Correct/Checked: | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |

Samples returned via:  
 UPS  FedEx  Courier

| Relinquished by: (Signature)   | Date:          | Time:       | Received by: (Signature)         | Trip Blank Received: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No |
|--|----------------|-------------|----------------------------------|--|
|  | <b>6/27/23</b> | <b>1600</b> |                                  | <input checked="" type="checkbox"/> HCL/MeOH<br><input type="checkbox"/> TBR               |
| Relinquished by: (Signature)   | Date:          | Time:       | Received by: (Signature)         | Temp: <b>3.1</b> Bottles Received: <b>36</b>   |
| Relinquished by: (Signature)   | Date:          | Time:       | Received for lab by: (Signature) | Date: <b>06/29/23</b> Time: <b>0906</b>  |

If preservation required by Login: Date/Time

Hold: Condition: **NCF / OK**

# APPENDIX F

**Ecology Permanent Closure Notice, Site Check/Site  
Assessment Checklist, and UST Site  
Assessor/Decommissioning Certifications**





# INTERNATIONAL CODE COUNCIL

## PAUL JANNEY

*The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:*

### Washington State Site Assessment

*Given this day July 28, 2023*

Certificate No. 9957601

Handwritten signature of Michael P. Wich in black ink.

**Michael Wich, CBO**  
President, Board of Directors

Handwritten signature of Dominic Sims in black ink.

**Dominic Sims, CBO**  
Chief Executive Officer





# INTERNATIONAL CODE COUNCIL

## DAVID WALKER

*The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:*

### UST Decommissioning

*Given this day August 3, 2022*

Certificate No. 8159957

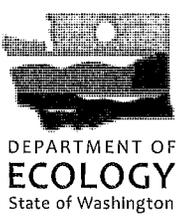
A handwritten signature in black ink that reads "Cindy Davis".

**Cindy Davis, CBO**  
President, Board of Directors

A handwritten signature in black ink that reads "Dominic Sims".

**Dominic Sims, CBO**  
Chief Executive Officer





# PERMANENT CLOSURE NOTICE

## FOR UNDERGROUND STORAGE TANKS

UST ID #: \_\_\_\_\_  
 County: Grays Harbor

*This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360A WAC. Instructions are found on the back page.*

| I. UST FACILITY                       | II. OWNER/OPERATOR INFORMATION            |
|---------------------------------------|---|
| Facility Compliance Tag #: A5021      | Owner/Operator Name: Port of Grays Harbor |
| UST ID #: 3488                        | Business Name: Port of Grays Harbor       |
| Site Name: Hungry Whale Mini Mart     | Address: PO Box 660                       |
| Site Address: 1680 N Montesano Street | City: Aberdeen State: WA Zip: 98520       |
| City: Westport                        | Phone: 360-533-9518                       |
| Phone: 360-533-9518                   | Email: aaschim@portgrays.org              |

| III. CERTIFIED UST DECOMMISSIONER                     |                      |   |                   |
|---|----------------------|---|-------------------|
| Company Name: Anderson Environmental Contracting, LLC |                      | Service Provider Name: David Walker     |                   |
| Address: 705 Colorado Street                          |                      | Certification Type: UST Decommissioning |                   |
| City: Kelso   | State: WA Zip: 98626 | Cert. No.: 8159957                      | Exp. Date: 8/3/24 |
| Provider Phone: 360-577-9194                          |                      | Provider Email: davidw@aecllc.net       |                   |
| <i>Provider Signature: David Walker</i>               |                      | <b>Date:</b> September 1, 2023          |                   |

| IV. TANK INFORMATION |               |                       |                                     |                          |                          |              |
|----------------------|---------------|-----------------------|-------------------------------------|--------------------------|--------------------------|--------------|
| TANK ID              | TANK CAPACITY | LAST SUBSTANCE STORED | CLOSURE METHOD                      |                          |                          | CLOSURE DATE |
|                      |               |                       | removal                             | closed-in-place          | change-in-service        |              |
| 1-20000              | 10,000        | Unleaded              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8/11/2023    |
|                      | 6,000         | Unleaded              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8/11/2023    |
|                      | 4,000         | Diesel                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8/11/2023    |
|                      |               |                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |              |
|                      |               |                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |              |
|                      |               |                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |              |

| V. REQUIRED SIGNATURE   |   |   |
|---|---|---|
| <i>Signature acknowledges UST(s) comply with UST regulation WAC 173-360A-0810 Permanent Closure Requirements.</i> |   |   |
| <b>10/13/23</b><br>Date   | <br>Signature of Tank Owner/Operator or Authorized Representative | <br>Print or Type Name <i>Contracts Manager</i> |

# PERMANENT CLOSURE NOTICE

## FOR UNDERGROUND STORAGE TANKS

---

### INSTRUCTIONS

This form must be completed and submitted **within thirty days of completing** permanent closure activities to the following address:

Dept. of Ecology  
UST Section  
PO Box 47655  
Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number. If all tanks at the site are permanently closed, the facility compliance tag must be returned with this notice.
- III. UST Decommissioner:** It is the responsibility of the ICC-certified Decommissioner to follow proper tank closure procedures in accordance with WAC 173-360A-0810. The Decommissioner signature certifies these procedures were followed.
- IV. Tank Information:** Use the same Tank IDs that are listed on the facility's Business License. List the last substance stored in each tank, the tank sizes, the method by which the tank is being closed, and the date closure activities were conducted. All closure methods require a site assessment be conducted in accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.
- V. Required Signature:** The owner and/or operator's signature is required. Also, the owner and/or operator is responsible for reporting confirmed releases to Ecology within 24 hours.

All confirmed releases must be reported to Ecology by the owner immediately and by service providers within 72 hours of the discovery of the condition. If the owner or operator is not immediately available, the report should be made directly to Ecology.

Be sure to contact your local fire marshal and other local jurisdictions. They may have other codes and regulations that apply to a permanent tank closure.

*Further questions? Please contact your regional office below and ask for a tank inspector to assist you.*

#### Regional Office

Central (509) 575-2490

Eastern (509) 329-3400

HQ (360) 407-7170

Northwest (425) 649-7000

Southwest (360) 407-6300

#### Counties Served

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman

Federal facilities in Western Washington

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

***or find a complete list of UST inspectors at:***

[www.ecy.wa.gov/programs/tcp/ust-lust/people.html](http://www.ecy.wa.gov/programs/tcp/ust-lust/people.html)



## SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: \_\_\_\_\_  
County: Grays Harbor

*This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360A WAC. Instructions are found on the last page.*

| I. UST FACILITY  |               | II. OWNER/OPERATOR INFORMATION |                                       |  |            |
|--|---------------|--------------------------------|---------------------------------------|--|------------|
| Facility Compliance Tag #:   |               | Owner/Operator Name:           |                                       |  |            |
| UST ID #:  |               | Business Name:                 |                                       |  |            |
| Site Name: The Hungry Whale  |               | Address:                       |                                       |  |            |
| Site Address: 1680 Montesano Street  |               | City: Westport                 |                                       | State: WA  | Zip: 98595 |
| City: Westport, WA   |               | Phone:                         |                                       |  |            |
| Phone: 360-268-0136  |               | Email:                         |                                       |  |            |
| III. CERTIFIED SITE ASSESSOR   |               |                                |                                       |  |            |
| Service Provider Name: Paul Janney   |               |                                | Company Name: Stantec Consulting Inc. |  |            |
| Cell Phone: 317-627-1321   |               | Email: paul.janney@stantec.com |                                       | Address: 601 SW 2 <sup>nd</sup> Avenue, Suite 1400 |            |
| Certification #: 9957601   |               | Exp. Date:<br>7/28/2025        | City: Portland                        | State: OR  | Zip: 97204 |
| IV. TANK INFORMATION   |               |                                |                                       |  |            |
| TANK ID  | TANK CAPACITY | LAST SUBSTANCE STORED          |                                       | DATE SITE CHECK OR ASSESSMENT CONDUCTED            |            |
| UST-1  | 10,000 gal    | RUL                            |                                       | 8/4/2023   |            |
| UST-2  | 20,000 gal    | RUL/PUL                        |                                       | 8/11/2023  |            |
| UST-3  | 6,000 gal     | RUL                            |                                       | 8/8/2023   |            |
|  |               |                                |                                       |  |            |
|  |               |                                |                                       |  |            |
| V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)  |               |                                |                                       |  |            |
| <input checked="" type="checkbox"/> Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).  |               |                                |                                       |  |            |
| <input type="checkbox"/> Release investigation following a failed tank and/or line tightness test.   |               |                                |                                       |  |            |
| <input type="checkbox"/> Release investigation following discovery of contaminated soil and/or groundwater.  |               |                                |                                       |  |            |
| <input type="checkbox"/> Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.  |               |                                |                                       |  |            |
| <input type="checkbox"/> UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water). |               |                                |                                       |  |            |
| <input type="checkbox"/> Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.   |               |                                |                                       |  |            |

Other (describe):

### VI. CHECKLIST

**The site assessor must check each of the following items and include it in the report.  
Sections referenced below can be found in the Ecology publication  
*Guidance for Site Checks and Site Assessments for Underground Storage Tanks.***

|  |                                     | YES | NO                                  |
|--|-------------------------------------|-----|-------------------------------------|
| 1. The location of the UST site is shown on a vicinity map.  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 2. A brief summary of information obtained during the site inspection is provided (Section 3.2)  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 3. A summary of UST system data is provided (Section 3.1)  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 4. The soils characteristics at the UST site are described. (Section 5.2)  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 5. Is there any apparent groundwater in the tank excavation?   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 6. A brief description of the surrounding land use is provided. (Section 3.1)  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.                         | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 8. The following items are provided in one or more sketches:   |                                     |     |                                     |
| • Location and ID number for all field samples collected   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| • If applicable, groundwater samples are distinguished from soil samples   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| • Location of samples collected from stockpiled excavated soil   | <input type="checkbox"/>            |     | <input checked="" type="checkbox"/> |
| • Tank and piping locations and limits of excavation pit   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| • Adjacent structures and streets  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| • Approximate locations of any on-site and nearby utilities  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded. | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 11. Any factors that may have compromised the quality of the data or validity of the results are described.  | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |
| 12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.   | <input checked="" type="checkbox"/> |     | <input type="checkbox"/>            |

### VII. REQUIRED SIGNATURES

*Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360A-0730 through 0750.*

Paul M. Janney



10/11/2023

Print or Type Name

Signature of Certified Site Assessor

Date

# SITE CHECK/SITE ASSESSMENT CHECKLIST

## FOR UNDERGROUND STORAGE TANKS

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### INSTRUCTIONS

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or “change-in-service” of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted **within thirty days of completing** these activities to the following address:

Dept. of Ecology  
UST Section  
PO Box 47655  
Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator Information:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- III. Service Provider Information:** It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology’s *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.
- IV. Tank Information:** Use the same Tank identification numbers listed on the facility’s Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature:** The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

*Further questions? Please contact your regional office below and ask for a tank inspector to assist you.*

#### **Regional Office**

#### **Counties Served**

Central (509) 575-2490

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima

Eastern (509) 329-3400

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman

HQ (360) 407-7170

Federal facilities in Western Washington

Northwest (425) 649-7000

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom

Southwest (360) 407-6300

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

*or find a complete list of UST inspectors at:*  
[www.ecy.wa.gov/programs/tcp/ust-lust/people.html](http://www.ecy.wa.gov/programs/tcp/ust-lust/people.html)

# **APPENDIX G**

## **Field Photographs**



# APPENDIX H

## UST and Impacted Soil Disposal Documentation



**W. MORE RECYCLE & SALVAGE, INC.**

13 Westport Rd.  
 Aberdeen WA, 98520-6482

Ticket #: 135593  
 Date: 08/24/2023 2:58 PM  
 Phone: (360) 612-3645  
 Fax: (360) 637-8067

Customer: WDL63R4B603B  
 GENN JASON  
 224 LEXINGTON AVE  
 KELSO WA, 98626-1809

Weigh Master: NICOLE

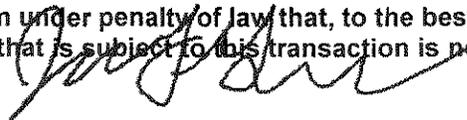
**Payment Information**

Remarks:

| Type  | Amount     | Number |
|-------|------------|--------|
| Check | \$2,243.03 | 129848 |

"I, the undersigned, affirm under penalty of law that, to the best of my knowledge, the property that is subject to this transaction is not stolen property."

Driver:



| Material      | Quantity    | Price    | Material \$ | Delivery \$ | Misc \$ | Tax \$ | Line Total \$ |
|---------------|-------------|----------|-------------|-------------|---------|--------|---------------|
| PREPARED IRON | 44970.00 lb | \$0.0450 | \$2,023.65  | \$0.00      | \$0.00  | \$0.00 | \$2,023.65    |
|               | 5850.00 lb  | \$0.0375 | \$219.38    | \$0.00      | \$0.00  | \$0.00 | \$219.38      |

| Material | Gross | Scale  | Tare | Scale  | Net   |                   |
|----------|-------|--------|------|--------|-------|-------------------|
| UIRON    | 44970 | MAN WT | 0    | STORED | 44970 | <b>\$2,243.03</b> |
| TN       | 5850  | MAN WT | 0    | STORED | 5850  |                   |

Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
 1600 - 13th Avenue South  
 Kelso, WA 98626  
 TEL (360) 677-3035

| Due Date |
|----------|
| 10/15/23 |

[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 651036 | 08-02-23 | LF   | 10NW ROC  |    | PCS - 45 : 26.59 TN |     |     |        |
| 651039 | 08-02-23 | LF   | 11 NW ROC |    | PCS - 45 : 24.75 TN |     |     |        |
| 651042 | 08-02-23 | LF   | 6NW ROC   |    | PCS - 45 : 31.26 TN |     |     |        |
| 651107 | 08-02-23 | LF   | 6NW ROC   |    | PCS - 45 : 32.66 TN |     |     |        |
| 651114 | 08-02-23 | LF   | 10NW COM  |    | PCS - 45 : 33.34 TN |     |     |        |
| 651147 | 08-03-23 | LF   | 10NW ROC  |    | PCS - 45 : 31.39 TN |     |     |        |
| 651149 | 08-03-23 | LF   | 14NW ROC  |    | PCS - 45 : 28.67 TN |     |     |        |
| 651157 | 08-03-23 | LF   | 11NW ROC  |    | PCS - 45 : 31.10 TN |     |     |        |
| 651161 | 08-03-23 | LF   | 6NW ROC   |    | PCS - 45 : 28.92 TN |     |     |        |
| 651227 | 08-03-23 | LF   | 10NW ROC  |    | PCS - 45 : 31.91 TN |     |     |        |
| 651229 | 08-03-23 | LF   | 14NW ROC  |    | PCS - 45 : 30.51 TN |     |     |        |
| 651232 | 08-03-23 | LF   | 6NW ROC   |    | PCS - 45 : 31.56 TN |     |     |        |
| 651261 | 08-04-23 | LF   | 11NW ROC  |    | PCS - 45 : 30.66 TN |     |     |        |
| 651264 | 08-04-23 | LF   | 10NW ROC  |    | PCS - 45 : 31.40 TN |     |     |        |
| 651266 | 08-04-23 | LF   | 14NW ROC  |    | PCS - 45 : 30.47 TN |     |     |        |
| 651270 | 08-04-23 | LF   | 6NW ROC   |    | PCS - 45 : 32.62 TN |     |     |        |
| 651334 | 08-04-23 | LF   | 11NW ROC  |    | PCS - 45 : 30.37 TN |     |     |        |
| 651336 | 08-04-23 | LF   | 14NW ROC  |    | PCS - 45 : 30.28 TN |     |     |        |
| 651338 | 08-04-23 | LF   | 6NW ROC   |    | PCS - 45 : 31.54 TN |     |     |        |
| 651374 | 08-07-23 | LF   | 11NW ROC  |    | PCS - 45 : 29.28 TN |     |     |        |
| 651376 | 08-07-23 | LF   | 12NW ROC  |    | PCS - 45 : 30.24 TN |     |     |        |
| 651381 | 08-07-23 | LF   | 10NW ROC  |    | PCS - 45 : 29.95 TN |     |     |        |
| 651382 | 08-07-23 | LF   | 5NW ROC   |    | PCS - 45 : 30.66 TN |     |     |        |
| 651383 | 08-07-23 | LF   | 4NW ROC   |    | PCS - 45 : 30.04 TN |     |     |        |
| 651386 | 08-07-23 | LF   | 6NW ROC   |    | PCS - 45 : 31.16 TN |     |     |        |
| 651389 | 08-07-23 | LF   | 8NW ROC   |    | PCS - 45 : 30.26 TN |     |     |        |
| 651412 | 08-07-23 | LF   | 9NW ROC   |    | PCS - 45 : 30.64 TN |     |     |        |
| 651456 | 08-07-23 | LF   | 11NW ROC  |    | PCS - 45 : 29.65 TN |     |     |        |
| 651457 | 08-07-23 | LF   | 12NW ROC  |    | PCS - 45 : 29.58 TN |     |     |        |
| 651459 | 08-07-23 | LF   | 4NW ROC   |    | PCS - 45 : 30.15 TN |     |     |        |
| 651462 | 08-07-23 | LF   | 6NW ROC   |    | PCS - 45 : 28.12 TN |     |     |        |
| 651465 | 08-07-23 | LF   | 5NW ROC   |    | PCS - 45 : 32.06 TN |     |     |        |
| 651470 | 08-07-23 | LF   | 10NW ROC  |    | PCS - 45 : 30.50 TN |     |     |        |
| 651473 | 08-07-23 | LF   | 8NW ROC   |    | PCS - 45 : 30.56 TN |     |     |        |
| 651502 | 08-08-23 | LF   | 4NW ROC   |    | PCS - 45 : 27.56 TN |     |     |        |
| 651505 | 08-08-23 | LF   | 9 NW ROC  |    | PCS - 45 : 30.48 TN |     |     |        |
| 651509 | 08-08-23 | LF   | 2411VCT   |    | PCS - 45 : 31.51 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
 1600 - 13th Avenue South  
 Kelso, WA 98626  
 TEL (360) 577-3036  
[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Due Date |
|----------|
| 10/15/23 |

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 651512 | 08-08-23 | LF   | 8 NW ROC  |    | PCS - 45 : 31.04 TN |     |     |        |
| 651513 | 08-08-23 | LF   | 12 NW ROC |    | PCS - 45 : 29.71 TN |     |     |        |
| 651516 | 08-08-23 | LF   | 11 NW ROC |    | PCS - 45 : 30.40 TN |     |     |        |
| 651519 | 08-08-23 | LF   | 5 NW ROC  |    | PCS - 45 : 32.50 TN |     |     |        |
| 651521 | 08-08-23 | LF   | 10 NW ROC |    | PCS - 45 : 30.88 TN |     |     |        |
| 651524 | 08-08-23 | LF   | 6 NW ROC  |    | PCS - 45 : 31.88 TN |     |     |        |
| 651535 | 08-08-23 | LF   | 2105VCT   |    | PCS - 45 : 33.85 TN |     |     |        |
| 651540 | 08-08-23 | LF   | 2023VCT   |    | PCS - 45 : 34.53 TN |     |     |        |
| 651568 | 08-08-23 | LF   | R72 RTRAI |    | PCS - 45 : 32.72 TN |     |     |        |
| 651574 | 08-08-23 | LF   | 143VCT    |    | PCS - 45 : 31.06 TN |     |     |        |
| 651582 | 08-08-23 | LF   | 4NW ROC   |    | PCS - 45 : 30.85 TN |     |     |        |
| 651585 | 08-08-23 | LF   | 9NW ROC   |    | PCS - 45 : 30.94 TN |     |     |        |
| 651587 | 08-08-23 | LF   | 2411VCT   |    | PCS - 45 : 33.20 TN |     |     |        |
| 651588 | 08-08-23 | LF   | 5NW ROC   |    | PCS - 45 : 31.03 TN |     |     |        |
| 651591 | 08-08-23 | LF   | 6NW ROC   |    | PCS - 45 : 32.36 TN |     |     |        |
| 651595 | 08-08-23 | LF   | 12NW ROC  |    | PCS - 45 : 31.38 TN |     |     |        |
| 651597 | 08-08-23 | LF   | 11NW ROC  |    | PCS - 45 : 30.90 TN |     |     |        |
| 651600 | 08-08-23 | LF   | 8NW ROC   |    | PCS - 45 : 31.52 TN |     |     |        |
| 651609 | 08-08-23 | LF   | 2023VCT   |    | PCS - 45 : 32.76 TN |     |     |        |
| 651610 | 08-08-23 | LF   | 2105VCT   |    | PCS - 45 : 36.47 TN |     |     |        |
| 651619 | 08-09-23 | LF   | 143VCT    |    | PCS - 45 : 32.45 TN |     |     |        |
| 651624 | 08-09-23 | LF   | 2065VCT   |    | PCS - 45 : 33.19 TN |     |     |        |
| 651631 | 08-09-23 | LF   | 3CELORIE  |    | PCS - 45 : 30.49 TN |     |     |        |
| 651632 | 08-09-23 | LF   | 2411VCT   |    | PCS - 45 : 32.06 TN |     |     |        |
| 651635 | 08-09-23 | LF   | R72       |    | PCS - 45 : 33.49 TN |     |     |        |
| 651640 | 08-09-23 | LF   | NWR5      |    | PCS - 45 : 31.80 TN |     |     |        |
| 651642 | 08-09-23 | LF   | NWR14     |    | PCS - 45 : 29.90 TN |     |     |        |
| 651644 | 08-09-23 | LF   | NWR12     |    | PCS - 45 : 30.81 TN |     |     |        |
| 651646 | 08-09-23 | LF   | NWR15     |    | PCS - 45 : 32.59 TN |     |     |        |
| 651647 | 08-09-23 | LF   | NWR11     |    | PCS - 45 : 30.81 TN |     |     |        |
| 651650 | 08-09-23 | LF   | NWR10     |    | PCS - 45 : 29.81 TN |     |     |        |
| 651652 | 08-09-23 | LF   | NWR9      |    | PCS - 45 : 31.21 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
 1600 - 13th Avenue South  
 Kelso, WA 98626  
 TEL (360) 577-3036  
[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Due Date |
|----------|
| 10/15/23 |

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 651654 | 08-09-23 | LF   | NWR6      |    | PCS - 45 : 30.15 TN |     |     |        |
| 651656 | 08-09-23 | LF   | 2150VCT   |    | PCS - 45 : 29.54 TN |     |     |        |
| 651658 | 08-09-23 | LF   | TAYLOR52  |    | PCS - 45 : 30.23 TN |     |     |        |
| 651667 | 08-09-23 | LF   | 2023VCT   |    | PCS - 45 : 33.73 TN |     |     |        |
| 651690 | 08-09-23 | LF   | 2133VCT   |    | PCS - 45 : 34.28 TN |     |     |        |
| 651699 | 08-09-23 | LF   | 143VCT    |    | PCS - 45 : 33.78 TN |     |     |        |
| 651714 | 08-09-23 | LF   | 2065VCT   |    | PCS - 45 : 33.35 TN |     |     |        |
| 651721 | 08-09-23 | LF   | 2411VCT   |    | PCS - 45 : 33.97 TN |     |     |        |
| 651724 | 08-09-23 | LF   | R72       |    | PCS - 45 : 34.08 TN |     |     |        |
| 651727 | 08-09-23 | LF   | NWR11     |    | PCS - 45 : 31.55 TN |     |     |        |
| 651728 | 08-09-23 | LF   | CELORIE3  |    | PCS - 45 : 33.83 TN |     |     |        |
| 651729 | 08-09-23 | LF   | NWR5      |    | PCS - 45 : 31.44 TN |     |     |        |
| 651730 | 08-09-23 | LF   | NWR12     |    | PCS - 45 : 28.36 TN |     |     |        |
| 651735 | 08-09-23 | LF   | NWR10     |    | PCS - 45 : 31.84 TN |     |     |        |
| 651737 | 08-09-23 | LF   | NWR9      |    | PCS - 45 : 31.78 TN |     |     |        |
| 651739 | 08-09-23 | LF   | NWR14     |    | PCS - 45 : 31.04 TN |     |     |        |
| 651741 | 08-09-23 | LF   | NWR15     |    | PCS - 45 : 30.41 TN |     |     |        |
| 651742 | 08-09-23 | LF   | NWR6      |    | PCS - 45 : 28.08 TN |     |     |        |
| 651744 | 08-09-23 | LF   | 5262TAYL  |    | PCS - 45 : 29.06 TN |     |     |        |
| 651745 | 08-09-23 | LF   | 2105VCT   |    | PCS - 45 : 32.84 TN |     |     |        |
| 651748 | 08-09-23 | LF   | 2023VCT   |    | PCS - 45 : 32.05 TN |     |     |        |
| 651755 | 08-10-23 | LF   | 143 VCT   |    | PCS - 45 : 32.26 TN |     |     |        |
| 651772 | 08-10-23 | LF   | 2411VCT   |    | PCS - 45 : 38.23 TN |     |     |        |
| 651773 | 08-10-23 | LF   | SHARLOW   |    | PCS - 45 : 30.88 TN |     |     |        |
| 651775 | 08-10-23 | LF   | 14NW ROC  |    | PCS - 45 : 30.59 TN |     |     |        |
| 651776 | 08-10-23 | LF   | 272 R TRA |    | PCS - 45 : 30.98 TN |     |     |        |
| 651778 | 08-10-23 | LF   | 15NW ROC  |    | PCS - 45 : 27.71 TN |     |     |        |
| 651779 | 08-10-23 | LF   | 2105VCT   |    | PCS - 45 : 33.27 TN |     |     |        |
| 651780 | 08-10-23 | LF   | 3CELORIE  |    | PCS - 45 : 32.52 TN |     |     |        |
| 651783 | 08-10-23 | LF   | 12NWROC   |    | PCS - 45 : 31.13 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

| Due Date |
|----------|
| 10/15/23 |

Remit payment to:  
**Cowlitz County Solid Waste**  
**1600 - 13th Avenue South**  
**Kelso, WA 98626**  
**TEL (360) 577-3035**  
[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck      | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|------------|----|---------------------|-----|-----|--------|
| 651788 | 08-10-23 | LF   | 5NW ROCH   |    | PCS - 45 : 31.61 TN |     |     |        |
| 651790 | 08-10-23 | LF   | 11NW ROC   |    | PCS - 45 : 30.76 TN |     |     |        |
| 651792 | 08-10-23 | LF   | 10NW ROC   |    | PCS - 45 : 31.51 TN |     |     |        |
| 651794 | 08-10-23 | LF   | 6NW ROCH   |    | PCS - 45 : 32.01 TN |     |     |        |
| 651798 | 08-10-23 | LF   | 562TAYLO   |    | PCS - 45 : 30.65 TN |     |     |        |
| 651808 | 08-10-23 | LF   | 2023VCT    |    | PCS - 45 : 34.93 TN |     |     |        |
| 651832 | 08-10-23 | LF   | 143VCT     |    | PCS - 45 : 33.58 TN |     |     |        |
| 651851 | 08-10-23 | LF   | 2411VCT    |    | PCS - 45 : 34.91 TN |     |     |        |
| 651852 | 08-10-23 | LF   | 72 R TRAN  |    | PCS - 45 : 31.14 TN |     |     |        |
| 651854 | 08-10-23 | LF   | 3CELORIE   |    | PCS - 45 : 30.58 TN |     |     |        |
| 651856 | 08-10-23 | LF   | 2105VCT    |    | PCS - 45 : 32.55 TN |     |     |        |
| 651861 | 08-10-23 | LF   | 12NW ROC   |    | PCS - 45 : 31.46 TN |     |     |        |
| 651863 | 08-10-23 | LF   | 5NW ROCH   |    | PCS - 45 : 30.96 TN |     |     |        |
| 651864 | 08-10-23 | LF   | 14 NW ROCH |    | PCS - 45 : 30.84 TN |     |     |        |
| 651865 | 08-10-23 | LF   | 11 NW ROCH |    | PCS - 45 : 31.89 TN |     |     |        |
| 651866 | 08-10-23 | LF   | 10 NW ROCH |    | PCS - 45 : 29.13 TN |     |     |        |
| 651867 | 08-10-23 | LF   | 15 NW ROCH |    | PCS - 45 : 30.66 TN |     |     |        |
| 651868 | 08-10-23 | LF   | 6 NW ROC   |    | PCS - 45 : 28.46 TN |     |     |        |
| 651869 | 08-10-23 | LF   | 5262 TAYL  |    | PCS - 45 : 32.93 TN |     |     |        |
| 651873 | 08-10-23 | LF   | 3HARLOW    |    | PCS - 45 : 29.82 TN |     |     |        |
| 651876 | 08-10-23 | LF   | 2023VCT    |    | PCS - 45 : 33.17 TN |     |     |        |
| 651884 | 08-11-23 | LF   | 3CELORIE   |    | PCS - 45 : 32.52 TN |     |     |        |
| 651886 | 08-11-23 | LF   | 474RTRAN   |    | PCS - 45 : 30.86 TN |     |     |        |
| 651887 | 08-11-23 | LF   | R-72 RTRA  |    | PCS - 45 : 32.18 TN |     |     |        |
| 651893 | 08-11-23 | LF   | 143VCT     |    | PCS - 45 : 33.65 TN |     |     |        |
| 651907 | 08-11-23 | LF   | 12NW ROC   |    | PCS - 45 : 28.17 TN |     |     |        |
| 651912 | 08-11-23 | LF   | 2105VCT    |    | PCS - 45 : 36.60 TN |     |     |        |
| 651920 | 08-11-23 | LF   | 2411VCT    |    | PCS - 45 : 37.29 TN |     |     |        |
| 651934 | 08-11-23 | LF   | 5262TAYL   |    | PCS - 45 : 30.19 TN |     |     |        |
| 651942 | 08-11-23 | LF   | 2023VCT    |    | PCS - 45 : 33.18 TN |     |     |        |
| 651975 | 08-11-23 | LF   | R-72 RTRA  |    | PCS - 45 : 31.23 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
**1600 - 13th Avenue South**  
**Kelso, WA 98626**  
**TEL (360) 577-3035**

| Due Date |
|----------|
| 10/15/23 |

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 651990 | 08-11-23 | LF   | 3CELORIE  |    | PCS - 45 : 31.42 TN |     |     |        |
| 652007 | 08-14-23 | LF   | 74R TRAN: |    | PCS - 45 : 32.85 TN |     |     |        |
| 652021 | 08-14-23 | LF   | 3 HARLOW  |    | PCS - 45 : 28.34 TN |     |     |        |
| 652022 | 08-14-23 | LF   | 72R TRAN: |    | PCS - 45 : 32.45 TN |     |     |        |
| 652023 | 08-14-23 | LF   | 4HARLOW   |    | PCS - 45 : 32.79 TN |     |     |        |
| 652024 | 08-14-23 | LF   | 3CELORIE  |    | PCS - 45 : 30.47 TN |     |     |        |
| 652028 | 08-14-23 | LF   | 22HARLOV  |    | PCS - 45 : 29.78 TN |     |     |        |
| 652030 | 08-14-23 | LF   | 12NW ROC  |    | PCS - 45 : 31.07 TN |     |     |        |
| 652035 | 08-14-23 | LF   | 15NW ROC  |    | PCS - 45 : 29.89 TN |     |     |        |
| 652036 | 08-14-23 | LF   | 528 QUIGG |    | PCS - 45 : 29.72 TN |     |     |        |
| 652038 | 08-14-23 | LF   | 528QUIGG  |    | PCS - 45 : 32.35 TN |     |     |        |
| 652040 | 08-14-23 | LF   | 11NW ROC  |    | PCS - 45 : 31.21 TN |     |     |        |
| 652041 | 08-14-23 | LF   | 5NW ROCH  |    | PCS - 45 : 31.68 TN |     |     |        |
| 652043 | 08-14-23 | LF   | 9NW ROCH  |    | PCS - 45 : 31.34 TN |     |     |        |
| 652044 | 08-14-23 | LF   | 10 NW ROC |    | PCS - 45 : 31.21 TN |     |     |        |
| 652047 | 08-14-23 | LF   | 143VCT    |    | PCS - 45 : 30.95 TN |     |     |        |
| 652048 | 08-14-23 | LF   | 8NW ROCH  |    | PCS - 45 : 31.06 TN |     |     |        |
| 652058 | 08-14-23 | LF   | 5262TAYLC |    | PCS - 45 : 30.32 TN |     |     |        |
| 652061 | 08-14-23 | LF   | 2023VCT   |    | PCS - 45 : 33.08 TN |     |     |        |
| 652067 | 08-14-23 | LF   | 6NW ROCH  |    | PCS - 45 : 31.29 TN |     |     |        |
| 652104 | 08-14-23 | LF   | 5HARLOW   |    | PCS - 45 : 31.35 TN |     |     |        |
| 652106 | 08-14-23 | LF   | 4HARLOW   |    | PCS - 45 : 28.53 TN |     |     |        |
| 652110 | 08-14-23 | LF   | 2107VCT   |    | PCS - 45 : 34.49 TN |     |     |        |
| 652111 | 08-14-23 | LF   | 11NW ROC  |    | PCS - 45 : 31.25 TN |     |     |        |
| 652115 | 08-14-23 | LF   | 9NW ROCH  |    | PCS - 45 : 31.17 TN |     |     |        |
| 652120 | 08-14-23 | LF   | 528QUIGG  |    | PCS - 45 : 24.02 TN |     |     |        |
| 652121 | 08-14-23 | LF   | 12NW ROC  |    | PCS - 45 : 30.70 TN |     |     |        |
| 652122 | 08-14-23 | LF   | 18KISSLEF |    | PCS - 45 : 29.66 TN |     |     |        |
| 652123 | 08-14-23 | LF   | 5NW ROCH  |    | PCS - 45 : 30.99 TN |     |     |        |
| 652126 | 08-14-23 | LF   | 10NW ROC  |    | PCS - 45 : 30.89 TN |     |     |        |
| 652127 | 08-14-23 | LF   | 5262TAYLC |    | PCS - 45 : 32.36 TN |     |     |        |
| 652129 | 08-14-23 | LF   | 143VCT    |    | PCS - 45 : 33.27 TN |     |     |        |
| 652132 | 08-14-23 | LF   | R72 R TRA |    | PCS - 45 : 34.46 TN |     |     |        |
| 652133 | 08-14-23 | LF   | 8NWR      |    | PCS - 45 : 31.46 TN |     |     |        |
| 652134 | 08-14-23 | LF   | 3CELORIE  |    | PCS - 45 : 31.13 TN |     |     |        |
| 652136 | 08-14-23 | LF   | 528QUIG   |    | PCS - 45 : 29.02 TN |     |     |        |
| 652143 | 08-15-23 | LF   | 2023VCT   |    | PCS - 45 : 31.67 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
**1600 - 13th Avenue South**  
**Kelso, WA 98626**  
**TEL (360) 577-3035**  
[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Due Date |
|----------|
| 10/15/23 |

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 652157 | 08-15-23 | LF   | 22HC      |    | PCS - 45 : 28.61 TN |     |     |        |
| 652161 | 08-15-23 | LF   | 528QB     |    | PCS - 45 : 3.71 TN  |     |     |        |
| 652163 | 08-15-23 | LF   | 3HC       |    | PCS - 45 : 29.23 TN |     |     |        |
| 652164 | 08-15-23 | LF   | 3CELOR    |    | PCS - 45 : 31.53 TN |     |     |        |
| 652165 | 08-15-23 | LF   | 72R       |    | PCS - 45 : 32.59 TN |     |     |        |
| 652171 | 08-15-23 | LF   | R74       |    | PCS - 45 : 31.79 TN |     |     |        |
| 652175 | 08-15-23 | LF   | 10NWR     |    | PCS - 45 : 31.00 TN |     |     |        |
| 652176 | 08-15-23 | LF   | 14NWR     |    | PCS - 45 : 29.13 TN |     |     |        |
| 652177 | 08-15-23 | LF   | R88       |    | PCS - 45 : 31.53 TN |     |     |        |
| 652179 | 08-15-23 | LF   | 11NWR     |    | PCS - 45 : 30.69 TN |     |     |        |
| 652180 | 08-15-23 | LF   | 15NWR     |    | PCS - 45 : 29.41 TN |     |     |        |
| 652183 | 08-15-23 | LF   | 12NWR     |    | PCS - 45 : 29.45 TN |     |     |        |
| 652184 | 08-15-23 | LF   | 528QUIGG  |    | PCS - 45 : 31.87 TN |     |     |        |
| 652185 | 08-15-23 | LF   | 9NWR      |    | PCS - 45 : 29.05 TN |     |     |        |
| 652188 | 08-15-23 | LF   | 5NWR      |    | PCS - 45 : 28.69 TN |     |     |        |
| 652190 | 08-15-23 | LF   | 6NWR      |    | PCS - 45 : 29.97 TN |     |     |        |
| 652196 | 08-15-23 | LF   | 16KISSLEF |    | PCS - 45 : 31.90 TN |     |     |        |
| 652197 | 08-15-23 | LF   | 5262TAYLC |    | PCS - 45 : 30.01 TN |     |     |        |
| 652208 | 08-15-23 | LF   | 2105VCT   |    | PCS - 45 : 31.13 TN |     |     |        |
| 652213 | 08-15-23 | LF   | 728VCT    |    | PCS - 45 : 30.83 TN |     |     |        |
| 652237 | 08-15-23 | LF   | 2023VCT   |    | PCS - 45 : 33.08 TN |     |     |        |
| 652248 | 08-15-23 | LF   | 3HC       |    | PCS - 45 : 30.51 TN |     |     |        |
| 652249 | 08-15-23 | LF   | 22HC      |    | PCS - 45 : 27.66 TN |     |     |        |
| 652252 | 08-15-23 | LF   | 10NW      |    | PCS - 45 : 28.52 TN |     |     |        |
| 652257 | 08-15-23 | LF   | 11NWR     |    | PCS - 45 : 29.10 TN |     |     |        |
| 652259 | 08-15-23 | LF   | R72R      |    | PCS - 45 : 32.74 TN |     |     |        |
| 652260 | 08-15-23 | LF   | 86R       |    | PCS - 45 : 29.92 TN |     |     |        |
| 652263 | 08-15-23 | LF   | 3CLRERE   |    | PCS - 45 : 30.25 TN |     |     |        |
| 652265 | 08-15-23 | LF   | 12NW      |    | PCS - 45 : 31.16 TN |     |     |        |
| 652266 | 08-15-23 | LF   | 6NWR      |    | PCS - 45 : 30.82 TN |     |     |        |
| 652267 | 08-15-23 | LF   | 5NWR      |    | PCS - 45 : 30.01 TN |     |     |        |
| 652270 | 08-15-23 | LF   | 9NWR      |    | PCS - 45 : 30.07 TN |     |     |        |
| 652271 | 08-15-23 | LF   | 15NWR     |    | PCS - 45 : 28.95 TN |     |     |        |
| 652273 | 08-15-23 | LF   | 14NWR     |    | PCS - 45 : 30.95 TN |     |     |        |

# Invoice

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 8/31/23 | 15988     |

Remit payment to:  
**Cowlitz County Solid Waste**  
**1600 - 13th Avenue South**  
**Kelso, WA 98626**  
**TEL (360) 677-3036**

| Due Date |
|----------|
| 10/15/23 |

[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Billing Address   |
|---|
| <b>ANDERSON ENVIRONMENTAL</b><br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck     | PO | Description         | Fee | Tax | Amount |
|--------|----------|------|-----------|----|---------------------|-----|-----|--------|
| 652274 | 08-15-23 | LF   | 10KISSLEF |    | PCS - 45 : 31.49 TN |     |     |        |
| 652276 | 08-15-23 | LF   | 5262TAYLC |    | PCS - 45 : 33.67 TN |     |     |        |
| 652280 | 08-15-23 | LF   | 728VCT    |    | PCS - 45 : 29.31 TN |     |     |        |
| 652281 | 08-15-23 | LF   | 2105VCT   |    | PCS - 45 : 34.48 TN |     |     |        |
| 652306 | 08-16-23 | LF   | 11NW ROC  |    | PCS - 45 : 30.49 TN |     |     |        |
| 652308 | 08-16-23 | LF   | 5NW ROC   |    | PCS - 45 : 29.56 TN |     |     |        |
| 652316 | 08-16-23 | LF   | 12NW ROC  |    | PCS - 45 : 29.51 TN |     |     |        |
| 652327 | 08-16-23 | LF   | 6NW ROC   |    | PCS - 45 : 29.62 TN |     |     |        |
| 652335 | 08-16-23 | LF   | 8NW ROC   |    | PCS - 45 : 31.37 TN |     |     |        |
| 652388 | 08-16-23 | LF   | 11NW ROC  |    | PCS - 45 : 31.03 TN |     |     |        |
| 652391 | 08-16-23 | LF   | 5NW ROC   |    | PCS - 45 : 29.42 TN |     |     |        |
| 652394 | 08-16-23 | LF   | 12NW ROC  |    | PCS - 45 : 30.10 TN |     |     |        |
| 652396 | 08-16-23 | LF   | 8NW ROC   |    | PCS - 45 : 29.05 TN |     |     |        |
| 653225 | 08-28-23 | LF   | 84R TRAN: |    | PCS - 45 : 28.88 TN |     |     |        |
| 653226 | 08-28-23 | LF   | 72R TRAN: |    | PCS - 45 : 29.16 TN |     |     |        |
| 653230 | 08-28-23 | LF   | 81R TRAN: |    | PCS - 45 : 27.85 TN |     |     |        |
| 653231 | 08-28-23 | LF   | 12NW ROC  |    | PCS - 45 : 27.79 TN |     |     |        |
| 653233 | 08-28-23 | LF   | 11NW ROC  |    | PCS - 45 : 24.36 TN |     |     |        |
| 653234 | 08-28-23 | LF   | 10NW ROC  |    | PCS - 45 : 24.60 TN |     |     |        |
| 653240 | 08-28-23 | LF   | 14NW ROC  |    | PCS - 45 : 26.35 TN |     |     |        |
| 653244 | 08-28-23 | LF   | 8NW ROC   |    | PCS - 45 : 31.21 TN |     |     |        |
| 653245 | 08-28-23 | LF   | 415NW RO  |    | PCS - 45 : 28.31 TN |     |     |        |
| 653246 | 08-28-23 | LF   | 9NW ROC   |    | PCS - 45 : 33.63 TN |     |     |        |
| 653263 | 08-28-23 | LF   | 74R TRAN: |    | PCS - 45 : 28.32 TN |     |     |        |
| 653266 | 08-28-23 | LF   | 4NW ROC   |    | PCS - 45 : 31.25 TN |     |     |        |
| 653310 | 08-28-23 | LF   | 12NW ROC  |    | PCS - 45 : 27.25 TN |     |     |        |
| 653315 | 08-28-23 | LF   | 11NW ROC  |    | PCS - 45 : 25.02 TN |     |     |        |
| 653318 | 08-28-23 | LF   | 10NW ROC  |    | PCS - 45 : 27.21 TN |     |     |        |
| 653394 | 08-28-23 | LF   | 12NW ROC  |    | PCS - 45 : 24.64 TN |     |     |        |

Note

**Invoice**

RECEIVED OCT - 4 2023

| Account # | Date    | Invoice # |
|-----------|---------|-----------|
| 150       | 9/30/23 | 16148     |

Remit payment to:  
Cowlitz County Solid Waste  
1600 - 13th Avenue South  
Kelso, WA 98626  
TEL (360) 577-3035  
[www.co.cowlitz.wa.us/publicworks](http://www.co.cowlitz.wa.us/publicworks)

| Due Date |
|----------|
| 11/15/23 |

| Billing Address  |
|--|
| ANDERSON ENVIRONMENTAL<br>705 Colorado Street<br>Kelso, WA 98626 |

Please include account number and invoice number with payment.

| Tran # | Date     | Site | Truck | PO | Description                | Fee | Tax | Amount |
|--------|----------|------|-------|----|----------------------------|-----|-----|--------|
| 653853 | 08-05-23 | LF   | 75AEC |    | PCS - 45 : 3.64 TN 23-2010 |     |     |        |

# APPENDIX I

## Soil Laboratory Analytical Reports



## Stantec- Bellevue, WA

Sample Delivery Group: L1642968  
Samples Received: 08/05/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

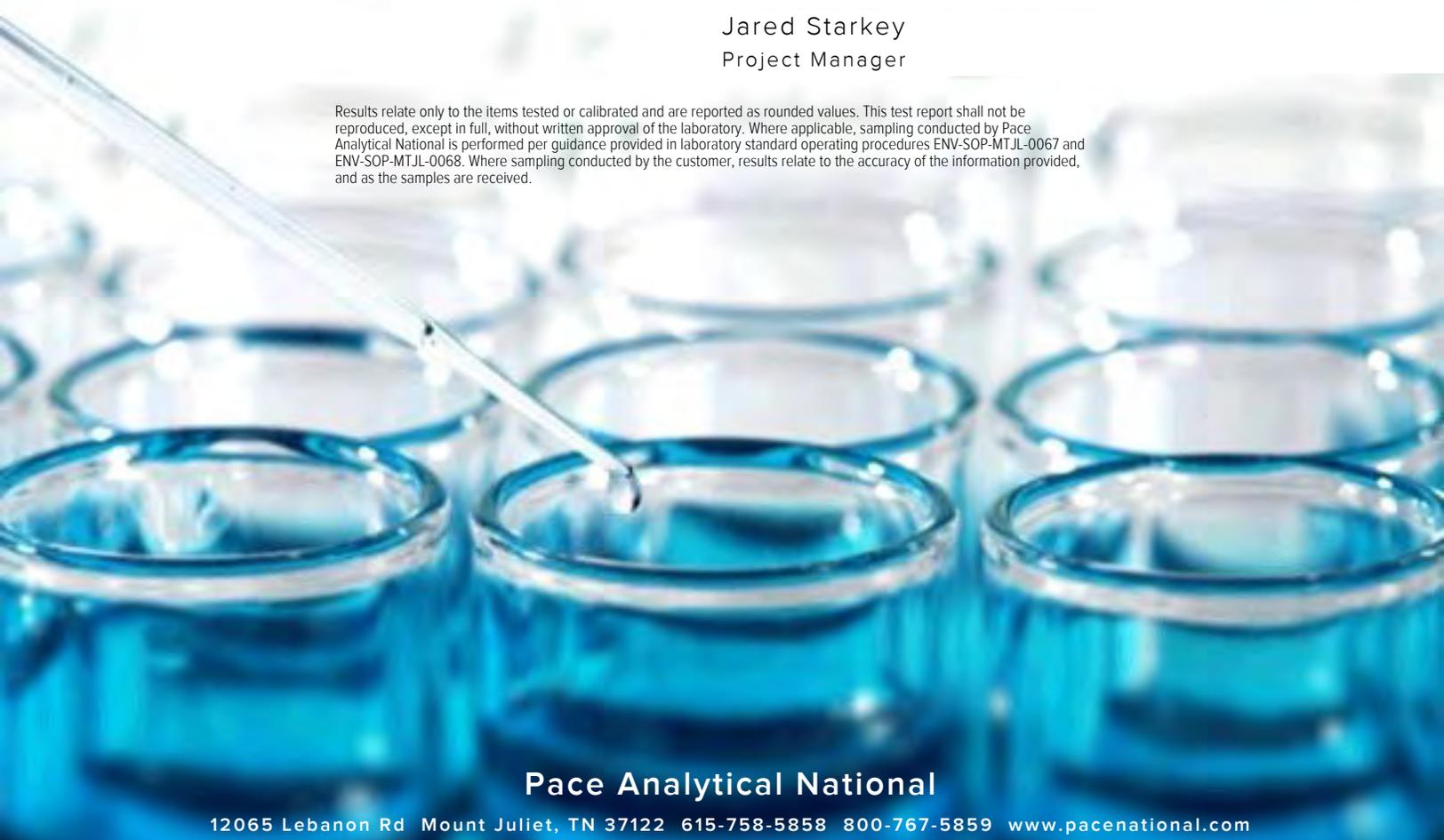
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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# SAMPLE SUMMARY

## USTI-SW1-5 L1642968-01 Solid

Collected by Paul Jenney      Collected date/time 08/03/23 12:35      Received date/time 08/05/23 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2110378 | 1        | 08/09/23 07:24        | 08/09/23 07:30     | MT      | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2110447 | 1        | 08/09/23 15:22        | 08/11/23 15:43     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113566 | 1000     | 08/03/23 12:35        | 08/14/23 12:04     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2111882 | 8        | 08/03/23 12:35        | 08/11/23 11:03     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2111987 | 1        | 08/11/23 09:43        | 08/12/23 01:35     | JAS     | Mt. Juliet, TN |



## USTI-SW2-5 L1642968-02 Solid

Collected by Paul Jenney      Collected date/time 08/03/23 12:40      Received date/time 08/05/23 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2110378 | 1        | 08/09/23 07:24        | 08/09/23 07:30     | MT      | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2110448 | 1        | 08/09/23 18:54        | 08/14/23 12:32     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113566 | 2000     | 08/03/23 12:40        | 08/14/23 12:27     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2111882 | 8        | 08/03/23 12:40        | 08/11/23 11:21     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114276 | 80       | 08/03/23 12:40        | 08/15/23 16:20     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2111987 | 5        | 08/11/23 09:43        | 08/11/23 20:44     | TJD     | Mt. Juliet, TN |

## USTI-SW3-5 L1642968-03 Solid

Collected by Paul Jenney      Collected date/time 08/03/23 12:45      Received date/time 08/05/23 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2110378 | 1        | 08/09/23 07:24        | 08/09/23 07:30     | MT      | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2110448 | 1        | 08/09/23 18:54        | 08/14/23 12:06     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113566 | 2000     | 08/03/23 12:45        | 08/14/23 13:18     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2111882 | 8        | 08/03/23 12:45        | 08/11/23 11:40     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114276 | 200      | 08/03/23 12:45        | 08/15/23 16:39     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2111987 | 25       | 08/11/23 09:43        | 08/11/23 21:23     | TJD     | Mt. Juliet, TN |

## USTI-SW4-5 L1642968-04 Solid

Collected by Paul Jenney      Collected date/time 08/03/23 12:50      Received date/time 08/05/23 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2110378 | 1        | 08/09/23 07:24        | 08/09/23 07:30     | MT      | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2110448 | 1        | 08/09/23 18:54        | 08/14/23 12:34     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113566 | 10000    | 08/03/23 12:50        | 08/14/23 13:40     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2111882 | 40       | 08/03/23 12:50        | 08/11/23 11:59     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114276 | 2000     | 08/03/23 12:50        | 08/15/23 16:58     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2111987 | 50       | 08/11/23 09:43        | 08/11/23 21:37     | TJD     | Mt. Juliet, TN |

## USTI-FL-10 L1642968-05 Solid

Collected by Paul Jenney      Collected date/time 08/03/23 12:55      Received date/time 08/05/23 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2110379 | 1        | 08/09/23 06:57        | 08/09/23 07:10     | MT      | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2110448 | 1        | 08/09/23 18:54        | 08/14/23 12:37     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113566 | 20000    | 08/03/23 12:55        | 08/14/23 14:03     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2111882 | 40       | 08/03/23 12:55        | 08/11/23 12:17     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114276 | 2000     | 08/03/23 12:55        | 08/15/23 17:17     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2111987 | 50       | 08/11/23 09:43        | 08/11/23 21:50     | TJD     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## SP-SC-1 L1642968-06 Solid

Collected by: Paul Jenney  
 Collected date/time: 08/03/23 07:50  
 Received date/time: 08/05/23 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2110379 | 1        | 08/09/23 06:57        | 08/09/23 07:10     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2110799 | 25       | 08/03/23 07:50        | 08/09/23 18:49     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2111882 | 1        | 08/03/23 07:50        | 08/11/23 06:23     | DWR     | Mt. Juliet, TN |

## SP-SI-1 L1642968-07 Solid

Collected by: Paul Jenney  
 Collected date/time: 08/03/23 07:55  
 Received date/time: 08/05/23 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2110379 | 1        | 08/09/23 06:57        | 08/09/23 07:10     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2113566 | 515      | 08/03/23 07:55        | 08/14/23 11:42     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2111882 | 1.03     | 08/03/23 07:55        | 08/11/23 06:41     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114276 | 20.6     | 08/03/23 07:55        | 08/15/23 17:36     | ADM     | Mt. Juliet, TN |

## SP-SI-2 L1642968-08 Solid

Collected by: Paul Jenney  
 Collected date/time: 08/03/23 08:00  
 Received date/time: 08/05/23 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2110379 | 1        | 08/09/23 06:57        | 08/09/23 07:10     | MT      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2110799 | 25       | 08/03/23 08:00        | 08/09/23 19:26     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2111882 | 1        | 08/03/23 08:00        | 08/11/23 07:00     | DWR     | Mt. Juliet, TN |

## TB-01 L1642968-09 GW

Collected by: Paul Jenney  
 Collected date/time: 08/03/23 00:00  
 Received date/time: 08/05/23 08:45

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113211 | 1        | 08/13/23 20:16        | 08/13/23 20:16     | ACG     | Mt. Juliet, TN |



# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

## Volatile Organic Compounds (GC) by Method NWTPHGX

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The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID |
|-----------|-------------------------------|---------------|
| WG2110799 | Gasoline Range Organics-NWTPH | L1642968-06   |

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

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Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte               | Lab Sample ID |
|-----------|-----------------------|---------------|
| WG2111882 | 1,2-Dichloroethane-d4 | L1642968-01   |

Surrogate recovery limits have been exceeded; values are outside upper control limits.

| Batch     | Analyte              | Lab Sample ID |
|-----------|----------------------|---------------|
| WG2111882 | 4-Bromofluorobenzene | L1642968-01   |
| WG2111882 | Toluene-d8           | L1642968-01   |

The same analyte is found in the associated blank.

| Batch     | Analyte | Lab Sample ID       |
|-----------|---------|---------------------|
| WG2111882 | Toluene | L1642968-01, 02, 06 |

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

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Surrogate recovery cannot be used for control limit evaluation due to dilution.

| Batch     | Analyte     | Lab Sample ID       |
|-----------|-------------|---------------------|
| WG2111987 | o-Terphenyl | L1642968-03, 04, 05 |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 89.4   |           | 1        | 08/09/2023 07:30 | <a href="#">WG2110378</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 7.85         |           | 0.233     | 0.559     | 1        | 08/11/2023 15:43 | <a href="#">WG2110447</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1790         |           | 42.5      | 125       | 1000     | 08/14/2023 12:04 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.3         |           |           | 77.0-120  |          | 08/14/2023 12:04 | <a href="#">WG2113566</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.13         |           | 0.00469   | 0.0100    | 8        | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| Toluene                   | 0.0846       | <u>B</u>  | 0.0130    | 0.0501    | 8        | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 21.7         |           | 0.00740   | 0.0251    | 8        | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| Total Xylenes             | 0.806        |           | 0.00883   | 0.0652    | 8        | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 142          | <u>J1</u> |           | 75.0-131  |          | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 158          | <u>J1</u> |           | 67.0-138  |          | 08/11/2023 11:03 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 61.0         | <u>J2</u> |           | 70.0-130  |          | 08/11/2023 11:03 | <a href="#">WG2111882</a> |

Sample Narrative:

L1642968-01 WG2111882: Surrogate failure due to matrix interference.

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 127          |           | 1.49      | 4.47      | 1        | 08/12/2023 01:35 | <a href="#">WG2111987</a> |
| Residual Range Organics (RRO) | 24.5         |           | 3.72      | 11.2      | 1        | 08/12/2023 01:35 | <a href="#">WG2111987</a> |
| (S) o-Terphenyl               | 62.2         |           |           | 18.0-148  |          | 08/12/2023 01:35 | <a href="#">WG2111987</a> |

Sample Narrative:

L1642968-01 WG2111987: Sample resembles laboratory standard for Kerosene.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.2   |           | 1        | 08/09/2023 07:30 | <a href="#">WG2110378</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 8.81         |           | 0.266     | 0.640     | 1        | 08/14/2023 12:32 | <a href="#">WG2110448</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4450         |           | 106       | 312       | 2000     | 08/14/2023 12:27 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.4         |           |           | 77.0-120  |          | 08/14/2023 12:27 | <a href="#">WG2113566</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.79         |           | 0.00584   | 0.0125    | 8        | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| Toluene                   | 0.0980       | <u>B</u>  | 0.0162    | 0.0624    | 8        | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 57.7         |           | 0.0921    | 0.312     | 80       | 08/15/2023 16:20 | <a href="#">WG2114276</a> |
| Total Xylenes             | 6.83         |           | 0.0110    | 0.0811    | 8        | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/15/2023 16:20 | <a href="#">WG2114276</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/15/2023 16:20 | <a href="#">WG2114276</a> |
| (S) 1,2-Dichloroethane-d4 | 79.3         |           |           | 70.0-130  |          | 08/11/2023 11:21 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           | 70.0-130  |          | 08/15/2023 16:20 | <a href="#">WG2114276</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 130          |           | 8.51      | 25.6      | 5        | 08/11/2023 20:44 | <a href="#">WG2111987</a> |
| Residual Range Organics (RRO) | U            |           | 21.2      | 64.0      | 5        | 08/11/2023 20:44 | <a href="#">WG2111987</a> |
| (S) o-Terphenyl               | 48.3         |           |           | 18.0-148  |          | 08/11/2023 20:44 | <a href="#">WG2111987</a> |

Sample Narrative:

L1642968-02 WG2111987: Sample resembles laboratory standard for Kerosene.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 93.5   |           | 1        | 08/09/2023 07:30 | <a href="#">WG2110378</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 7.60         |           | 0.223     | 0.535     | 1        | 08/14/2023 12:06 | <a href="#">WG2110448</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 6130         |           | 78.2      | 231       | 2000     | 08/14/2023 13:18 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.6         |           |           | 77.0-120  |          | 08/14/2023 13:18 | <a href="#">WG2113566</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.05         |           | 0.00431   | 0.00923   | 8        | 08/11/2023 11:40 | <a href="#">WG2111882</a> |
| Toluene                   | 6.45         |           | 0.0120    | 0.0461    | 8        | 08/11/2023 11:40 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 34.2         |           | 0.170     | 0.577     | 200      | 08/15/2023 16:39 | <a href="#">WG2114276</a> |
| Total Xylenes             | 187          |           | 0.203     | 1.50      | 200      | 08/15/2023 16:39 | <a href="#">WG2114276</a> |
| (S) Toluene-d8            | 117          |           |           | 75.0-131  |          | 08/11/2023 11:40 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/15/2023 16:39 | <a href="#">WG2114276</a> |
| (S) 4-Bromofluorobenzene  | 118          |           |           | 67.0-138  |          | 08/11/2023 11:40 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/15/2023 16:39 | <a href="#">WG2114276</a> |
| (S) 1,2-Dichloroethane-d4 | 89.2         |           |           | 70.0-130  |          | 08/11/2023 11:40 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 08/15/2023 16:39 | <a href="#">WG2114276</a> |

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

| Analyte                       | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|--------------------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 552          |                    | 35.6      | 107       | 25       | 08/11/2023 21:23 | <a href="#">WG2111987</a> |
| Residual Range Organics (RRO) | U            |                    | 89.1      | 267       | 25       | 08/11/2023 21:23 | <a href="#">WG2111987</a> |
| (S) o-Terphenyl               | 51.7         | <a href="#">J7</a> |           | 18.0-148  |          | 08/11/2023 21:23 | <a href="#">WG2111987</a> |

Sample Narrative:

L1642968-03 WG2111987: Sample resembles laboratory standard for Kerosene.



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 81.9   |           | 1        | 08/09/2023 07:30 | <a href="#">WG2110378</a> |

## Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 6.24         |           | 0.254     | 0.611     | 1        | 08/14/2023 12:34 | <a href="#">WG2110448</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 31300        |           | 505       | 1490      | 10000    | 08/14/2023 13:40 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.1         |           |           | 77.0-120  |          | 08/14/2023 13:40 | <a href="#">WG2113566</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 89.3         |           | 0.0279    | 0.0596    | 40       | 08/11/2023 11:59 | <a href="#">WG2111882</a> |
| Toluene                   | 308          |           | 3.87      | 14.9      | 2000     | 08/15/2023 16:58 | <a href="#">WG2114276</a> |
| Ethylbenzene              | 258          |           | 2.19      | 7.45      | 2000     | 08/15/2023 16:58 | <a href="#">WG2114276</a> |
| Total Xylenes             | 1700         |           | 2.62      | 19.4      | 2000     | 08/15/2023 16:58 | <a href="#">WG2114276</a> |
| (S) Toluene-d8            | 111          |           |           | 75.0-131  |          | 08/11/2023 11:59 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/15/2023 16:58 | <a href="#">WG2114276</a> |
| (S) 4-Bromofluorobenzene  | 111          |           |           | 67.0-138  |          | 08/11/2023 11:59 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/15/2023 16:58 | <a href="#">WG2114276</a> |
| (S) 1,2-Dichloroethane-d4 | 96.4         |           |           | 70.0-130  |          | 08/11/2023 11:59 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 08/15/2023 16:58 | <a href="#">WG2114276</a> |

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

| Analyte                       | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|--------------------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 1120         |                    | 81.2      | 244       | 50       | 08/11/2023 21:37 | <a href="#">WG2111987</a> |
| Residual Range Organics (RRO) | U            |                    | 203       | 611       | 50       | 08/11/2023 21:37 | <a href="#">WG2111987</a> |
| (S) o-Terphenyl               | 0.000        | <a href="#">J7</a> |           | 18.0-148  |          | 08/11/2023 21:37 | <a href="#">WG2111987</a> |

## Sample Narrative:

L1642968-04 WG2111987: Sample resembles laboratory standard for Gasoline.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 89.7   |           | 1        | 08/09/2023 07:10 | <a href="#">WG2110379</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 4.94         |           | 0.232     | 0.557     | 1        | 08/14/2023 12:37 | <a href="#">WG2110448</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 39300        |           | 849       | 2510      | 20000    | 08/14/2023 14:03 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.6         |           |           | 77.0-120  |          | 08/14/2023 14:03 | <a href="#">WG2113566</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 57.3         |           | 0.0234    | 0.0501    | 40       | 08/11/2023 12:17 | <a href="#">WG2111882</a> |
| Toluene                   | 205          |           | 3.26      | 12.5      | 2000     | 08/15/2023 17:17 | <a href="#">WG2114276</a> |
| Ethylbenzene              | 154          |           | 1.84      | 6.26      | 2000     | 08/15/2023 17:17 | <a href="#">WG2114276</a> |
| Total Xylenes             | 1010         |           | 2.20      | 16.3      | 2000     | 08/15/2023 17:17 | <a href="#">WG2114276</a> |
| (S) Toluene-d8            | 114          |           |           | 75.0-131  |          | 08/11/2023 12:17 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/15/2023 17:17 | <a href="#">WG2114276</a> |
| (S) 4-Bromofluorobenzene  | 109          |           |           | 67.0-138  |          | 08/11/2023 12:17 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/15/2023 17:17 | <a href="#">WG2114276</a> |
| (S) 1,2-Dichloroethane-d4 | 91.1         |           |           | 70.0-130  |          | 08/11/2023 12:17 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           | 70.0-130  |          | 08/15/2023 17:17 | <a href="#">WG2114276</a> |

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

| Analyte                       | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|--------------------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 1650         |                    | 74.1      | 223       | 50       | 08/11/2023 21:50 | <a href="#">WG2111987</a> |
| Residual Range Organics (RRO) | U            |                    | 185       | 557       | 50       | 08/11/2023 21:50 | <a href="#">WG2111987</a> |
| (S) o-Terphenyl               | 0.000        | <a href="#">J7</a> |           | 18.0-148  |          | 08/11/2023 21:50 | <a href="#">WG2111987</a> |

Sample Narrative:

L1642968-05 WG2111987: Sample resembles laboratory standard for Gasoline.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 87.9   |           | 1        | 08/09/2023 07:10 | <a href="#">WG2110379</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.89         | <u>B</u>  | 1.09      | 3.21      | 25       | 08/09/2023 18:49 | <a href="#">WG2110799</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104          |           |           | 77.0-120  |          | 08/09/2023 18:49 | <a href="#">WG2110799</a> |

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

| Analyte                   | Result (dry) | Qualifier  | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|------------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00121      | <u>J</u>   | 0.000600  | 0.00128   | 1        | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| Toluene                   | 0.00483      | <u>B J</u> | 0.00167   | 0.00642   | 1        | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 0.00163      | <u>J</u>   | 0.000946  | 0.00321   | 1        | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| Total Xylenes             | 0.0193       |            | 0.00113   | 0.00834   | 1        | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 114          |            |           | 75.0-131  |          | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 98.9         |            |           | 67.0-138  |          | 08/11/2023 06:23 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 90.8         |            |           | 70.0-130  |          | 08/11/2023 06:23 | <a href="#">WG2111882</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.8   |           | 1        | 08/09/2023 07:10 | <a href="#">WG2110379</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 958          |           | 25.7      | 75.5      | 515      | 08/14/2023 11:42 | <a href="#">WG2113566</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 84.3         |           |           | 77.0-120  |          | 08/14/2023 11:42 | <a href="#">WG2113566</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.244        |           | 0.000706  | 0.00151   | 1.03     | 08/11/2023 06:41 | <a href="#">WG2111882</a> |
| Toluene                   | 0.956        |           | 0.00197   | 0.00755   | 1.03     | 08/11/2023 06:41 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 5.21         |           | 0.0223    | 0.0755    | 20.6     | 08/15/2023 17:36 | <a href="#">WG2114276</a> |
| Total Xylenes             | 25.5         |           | 0.0266    | 0.197     | 20.6     | 08/15/2023 17:36 | <a href="#">WG2114276</a> |
| (S) Toluene-d8            | 112          |           |           | 75.0-131  |          | 08/11/2023 06:41 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/15/2023 17:36 | <a href="#">WG2114276</a> |
| (S) 4-Bromofluorobenzene  | 114          |           |           | 67.0-138  |          | 08/11/2023 06:41 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/15/2023 17:36 | <a href="#">WG2114276</a> |
| (S) 1,2-Dichloroethane-d4 | 82.6         |           |           | 70.0-130  |          | 08/11/2023 06:41 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 08/15/2023 17:36 | <a href="#">WG2114276</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.2   |           | 1        | 08/09/2023 07:10 | <a href="#">WG2110379</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 268          |           | 1.27      | 3.74      | 25       | 08/09/2023 19:26 | <a href="#">WG2110799</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 106          |           |           | 77.0-120  |          | 08/09/2023 19:26 | <a href="#">WG2110799</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0713       |           | 0.000698  | 0.00149   | 1        | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| Toluene                   | 0.117        |           | 0.00194   | 0.00747   | 1        | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| Ethylbenzene              | 2.94         |           | 0.00110   | 0.00374   | 1        | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| Total Xylenes             | 9.28         |           | 0.00132   | 0.00972   | 1        | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| (S) 4-Bromofluorobenzene  | 115          |           |           | 67.0-138  |          | 08/11/2023 07:00 | <a href="#">WG2111882</a> |
| (S) 1,2-Dichloroethane-d4 | 81.8         |           |           | 70.0-130  |          | 08/11/2023 07:00 | <a href="#">WG2111882</a> |

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

| Analyte                          | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|----------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                  | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                          | U      |           | 0.0941 | 1.00     | 1        | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| Toluene                          | U      |           | 0.278  | 1.00     | 1        | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| Ethylbenzene                     | U      |           | 0.137  | 1.00     | 1        | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| Total Xylenes                    | U      |           | 0.174  | 3.00     | 1        | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| <i>(S) Toluene-d8</i>            | 111    |           |        | 80.0-120 |          | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 97.4   |           |        | 77.0-126 |          | 08/13/2023 20:16 | <a href="#">WG2113211</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 105    |           |        | 70.0-130 |          | 08/13/2023 20:16 | <a href="#">WG2113211</a> |

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

Method Blank (MB)

(MB) R3958615-1 08/09/23 07:30

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

1 Cp

2 Tc

3 Ss

L1642968-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1642968-03 08/09/23 07:30 • (DUP) R3958615-3 08/09/23 07:30

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 93.5            | 94.4       | 1        | 0.969   |               | 10             |

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3958615-2 08/09/23 07:30

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 99.9     | 85.0-115    |               |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3958594-1 08/09/23 07:10

| Analyte      | MB Result<br>% | MB Qualifier | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|--------------|-------------|-------------|
| Total Solids | 0.00200        |              |             |             |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1643018-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1643018-03 08/09/23 07:10 • (DUP) R3958594-3 08/09/23 07:10

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|---------------|-------------------|
| Total Solids | 85.9                 | 86.4            | 1        | 0.592        |               | 10                |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3958594-2 08/09/23 07:10

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|--------------|-------------------|-----------------|---------------|------------------|---------------|
| Total Solids | 50.0              | 50.0            | 99.9          | 85.0-115         |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3959609-2 08/11/23 13:12

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

Laboratory Control Sample (LCS)

(LCS) R3959609-1 08/11/23 13:09

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 104                 | 104           | 80.0-120         |               |

L1642788-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1642788-01 08/11/23 13:16 • (MS) R3959609-5 08/11/23 13:25 • (MSD) R3959609-6 08/11/23 13:28

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 124                         | 29.3                           | 155                      | 142                       | 101          | 91.1          | 1        | 75.0-125         |              |               | 8.51     | 20              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3960362-1 08/14/23 12:00

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3960362-2 08/14/23 12:03

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 104                 | 104           | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1642968-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1642968-03 08/14/23 12:06 • (MS) R3960362-5 08/14/23 12:13 • (MSD) R3960362-6 08/14/23 12:16

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 107                         | 7.60                           | 102                      | 107                       | 88.2         | 92.5          | 1        | 75.0-125         |              |               | 4.41     | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960115-3 08/09/23 14:32

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 2.02               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 104                |              |                 | 77.0-120        |

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

(LCS) R3960115-1 08/09/23 12:35 • (LCSD) R3960115-2 08/09/23 12:54

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.24                | 5.59                 | 95.3          | 102            | 71.0-124         |               |                | 6.46     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 110           | 112            | 77.0-120         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3960304-2 08/14/23 10:51

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 1.04               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 92.0               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3960304-1 08/14/23 10:05

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.84                | 106           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 95.6          | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3960728-3 08/11/23 06:04

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/kg     |              | mg/kg    | mg/kg    |
| Benzene                   | U         |              | 0.000467 | 0.00100  |
| Toluene                   | 0.00147   | U            | 0.00130  | 0.00500  |
| Ethylbenzene              | U         |              | 0.000737 | 0.00250  |
| Total Xylenes             | U         |              | 0.000880 | 0.00650  |
| (S) Toluene-d8            | 117       |              |          | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 102       |              |          | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 92.4      |              |          | 70.0-130 |

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

(LCS) R3960728-1 08/11/23 04:31 • (LCSD) R3960728-2 08/11/23 04:50

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                           | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                   | 0.125        | 0.113      | 0.109       | 90.4     | 87.2      | 70.0-123    |               |                | 3.60  | 20         |
| Toluene                   | 0.125        | 0.127      | 0.128       | 102      | 102       | 75.0-121    |               |                | 0.784 | 20         |
| Ethylbenzene              | 0.125        | 0.134      | 0.133       | 107      | 106       | 74.0-126    |               |                | 0.749 | 20         |
| Total Xylenes             | 0.375        | 0.395      | 0.411       | 105      | 110       | 72.0-127    |               |                | 3.97  | 20         |
| (S) Toluene-d8            |              |            |             | 112      | 112       | 75.0-131    |               |                |       |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 98.8     | 105       | 67.0-138    |               |                |       |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 95.7     | 97.4      | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961137-3 08/15/23 11:21

| Analyte                          | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------------------|--------------------|--------------|-----------------|-----------------|
| Toluene                          | U                  |              | 0.00130         | 0.00500         |
| Ethylbenzene                     | U                  |              | 0.000737        | 0.00250         |
| Total Xylenes                    | U                  |              | 0.000880        | 0.00650         |
| <i>(S) Toluene-d8</i>            | 106                |              |                 | 75.0-131        |
| <i>(S) 4-Bromofluorobenzene</i>  | 101                |              |                 | 67.0-138        |
| <i>(S) 1,2-Dichloroethane-d4</i> | 99.9               |              |                 | 70.0-130        |

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

(LCS) R3961137-1 08/15/23 09:46 • (LCSD) R3961137-2 08/15/23 10:05

| Analyte                          | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Toluene                          | 0.125                 | 0.106               | 0.115                | 84.8          | 92.0           | 75.0-121         |               |                | 8.14     | 20              |
| Ethylbenzene                     | 0.125                 | 0.104               | 0.115                | 83.2          | 92.0           | 74.0-126         |               |                | 10.0     | 20              |
| Total Xylenes                    | 0.375                 | 0.321               | 0.356                | 85.6          | 94.9           | 72.0-127         |               |                | 10.3     | 20              |
| <i>(S) Toluene-d8</i>            |                       |                     |                      | 104           | 104            | 75.0-131         |               |                |          |                 |
| <i>(S) 4-Bromofluorobenzene</i>  |                       |                     |                      | 102           | 101            | 67.0-138         |               |                |          |                 |
| <i>(S) 1,2-Dichloroethane-d4</i> |                       |                     |                      | 104           | 105            | 70.0-130         |               |                |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3960214-2 08/13/23 14:56

| Analyte                   | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------------------------|-------------------|--------------|----------------|----------------|
| Benzene                   | U                 |              | 0.0941         | 1.00           |
| Toluene                   | U                 |              | 0.278          | 1.00           |
| Ethylbenzene              | U                 |              | 0.137          | 1.00           |
| Total Xylenes             | U                 |              | 0.174          | 3.00           |
| (S) Toluene-d8            | 109               |              |                | 80.0-120       |
| (S) 4-Bromofluorobenzene  | 99.4              |              |                | 77.0-126       |
| (S) 1,2-Dichloroethane-d4 | 109               |              |                | 70.0-130       |

Laboratory Control Sample (LCS)

(LCS) R3960214-1 08/13/23 14:13

| Analyte                   | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Benzene                   | 5.00                 | 4.37               | 87.4          | 70.0-123         |               |
| Toluene                   | 5.00                 | 4.52               | 90.4          | 79.0-120         |               |
| Ethylbenzene              | 5.00                 | 4.33               | 86.6          | 79.0-123         |               |
| Total Xylenes             | 15.0                 | 12.8               | 85.3          | 79.0-123         |               |
| (S) Toluene-d8            |                      |                    | 104           | 80.0-120         |               |
| (S) 4-Bromofluorobenzene  |                      |                    | 97.4          | 77.0-126         |               |
| (S) 1,2-Dichloroethane-d4 |                      |                    | 104           | 70.0-130         |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3959740-1 08/11/23 16:29

| Analyte                       | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------------|--------------------|--------------|-----------------|-----------------|
| Diesel Range Organics (DRO)   | U                  |              | 1.33            | 4.00            |
| Residual Range Organics (RRO) | U                  |              | 3.33            | 10.0            |
| <i>(S) o-Terphenyl</i>        | 60.1               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3959740-2 08/11/23 16:42

| Analyte                     | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Diesel Range Organics (DRO) | 50.0                  | 36.2                | 72.4          | 50.0-150         |               |
| <i>(S) o-Terphenyl</i>      |                       |                     | 70.1          | 18.0-148         |               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC4 • File ID: 0814\_03

08/14/23 08:09

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0814_03 | 3857200             | 1337267             |
| Upper Limit                    |         | 7714400             | 2674534             |
| Lower Limit                    |         | 1928600             | 668634              |
| LCS R3960304-1 WG2113566 1x    | 0814_05 | 3793670             | 1299598             |
| BLANK R3960304-2 WG2113566 25x | 0814_07 | 4158846             | 1493090             |
| L1642968-07 WG2113566 515x     | 0814_08 | 4012457             | 1278021             |
| L1642968-01 WG2113566 1000x    | 0814_09 | 4240810             | 1412269             |
| L1642968-02 WG2113566 2000x    | 0814_10 | 4193904             | 1405820             |
| L1642968-03 WG2113566 2000x    | 0814_11 | 3361814             | 1140849             |
| L1642968-04 WG2113566 10000x   | 0814_12 | 3699365             | 1244480             |
| L1642968-05 WG2113566 20000x   | 0814_13 | 3757506             | 1253629             |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCGC17 • File ID: 0809\_03

08/09/23 12:17

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0809_03 | 338956400           | 338956400           |
| Upper Limit                    |         | 677912800           | 677912800           |
| Lower Limit                    |         | 169478200           | 169478200           |
| LCS R3960115-1 WG2110799 1x    | 0809_04 | 300345100           | 300345100           |
| LCSD R3960115-2 WG2110799 1x   | 0809_05 | 294907400           | 294907400           |
| BLANK R3960115-3 WG2110799 25x | 0809_08 | 248958300           | 248958300           |

## Instrument: VOCGC17 • File ID: 0809\_15

08/09/23 17:10

| Sample ID                 | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|---------------------------|---------|---------------------|---------------------|
|                           |         | Response            | Response            |
| Standard                  | 0809_15 | 331782000           | 331782000           |
| Upper Limit               |         | 663564000           | 663564000           |
| Lower Limit               |         | 165891000           | 165891000           |
| L1642968-06 WG2110799 25x | 0809_20 | 258881200           | 258881200           |
| L1642968-08 WG2110799 25x | 0809_22 | 263789800           | 263789800           |

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS56 • File ID: 0811\_02-1

08/11/23 04:31

| Sample ID                     | File ID    | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
|                               |            | Response           | Response              | Response                    |
| Standard                      | 0811_02-1  | 914542.50          | 426966.40             | 389002.10                   |
| Upper Limit                   |            | 1829085            | 853933                | 778004                      |
| Lower Limit                   |            | 457271             | 213483                | 194501                      |
| LCS R3960728-1 WG2111882 1x   | 0811_02LCS | 914542.50          | 426966.40             | 389002.10                   |
| LCSD R3960728-2 WG2111882 1x  | 0811_03    | 904654.80          | 412733.30             | 400209.30                   |
| BLANK R3960728-3 WG2111882 1x | 0811_07    | 892868.50          | 382594.10             | 349649.40                   |
| L1642968-06 WG2111882 1x      | 0811_08    | 911629.70          | 401456                | 357943.90                   |
| L1642968-07 WG2111882 1.03x   | 0811_09    | 846869.10          | 384643.90             | 356635                      |
| L1642968-08 WG2111882 1x      | 0811_10    | 896111.60          | 401753.20             | 389808.80                   |
| L1642968-01 WG2111882 8x      | 0811_23    | 975569.70          | 329954.90             | 377495.80                   |
| L1642968-02 WG2111882 8x      | 0811_24    | 929094.20          | 396131.90             | 383819.50                   |
| L1642968-03 WG2111882 8x      | 0811_25    | 940644.70          | 401083.20             | 385487.60                   |
| L1642968-04 WG2111882 40x     | 0811_26    | 928050             | 380676.90             | 356233.60                   |
| L1642968-05 WG2111882 40x     | 0811_27    | 947980.70          | 403639.50             | 390271.40                   |

Instrument: VOCMS58 • File ID: 0815\_02-1

08/15/23 09:46

| Sample ID                     | File ID    | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
|                               |            | Response           | Response              | Response                    |
| Standard                      | 0815_02-1  | 1264940            | 589738                | 597441.60                   |
| Upper Limit                   |            | 2529882            | 1179476               | 1194883                     |
| Lower Limit                   |            | 632471             | 294869                | 298721                      |
| LCS R3961137-1 WG2114276 1x   | 0815_02LCS | 1264940            | 589738                | 597441.60                   |
| LCSD R3961137-2 WG2114276 1x  | 0815_03    | 1159138            | 535029.70             | 535613.20                   |
| BLANK R3961137-3 WG2114276 1x | 0815_07    | 1241232            | 553562.10             | 532621.90                   |
| L1642968-02 WG2114276 80x     | 0815_09    | 1220129            | 550318.60             | 554950.10                   |
| L1642968-03 WG2114276 200x    | 0815_10    | 1300111            | 603773.30             | 601493.10                   |
| L1642968-04 WG2114276 2000x   | 0815_11    | 1207150            | 548658.10             | 556317.20                   |
| L1642968-05 WG2114276 2000x   | 0815_12    | 1295865            | 583721.10             | 588978.60                   |
| L1642968-07 WG2114276 20.6x   | 0815_13    | 1201924            | 548849.50             | 553374.40                   |



# INTERNAL STANDARD SUMMARY

Instrument: VOCMS16 • File ID: 0813\_28-3

08/13/23 14:13

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0813_28-3  | 268674                         | 107083                            | 90901                                   |
| Upper Limit                   |            | 537348                         | 214166                            | 181802                                  |
| Lower Limit                   |            | 134337                         | 53542                             | 45451                                   |
| LCS R3960214-1 WG2113211 1x   | 0813_28LCS | 268674                         | 107083                            | 90901                                   |
| BLANK R3960214-2 WG2113211 1x | 0813_30    | 220776                         | 85449                             | 75870                                   |
| L1642968-09 WG2113211 1x      | 0813_39    | 270338                         | 106194                            | 90828                                   |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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  |
|-----------|--|
| B         | The same analyte is found in the associated blank.                                     |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.    |
| J1        | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits. |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



**MT JULIET, TN**

1206S 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/hubs/pas-standard-terms.pdf>

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com; marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Sumney**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Sumney**

**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  X

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|------|------|--------------|
|-----------|-----------|----------|-------|------|------|--------------|

|                             |   |      |    |        |      |   |
|-----------------------------|---|------|----|--------|------|---|
| UST1-SW1-5                  | G | SS   | 5  | 8/3/23 | 1235 | 5 |
| UST1-SW2-5                  | G | SS   | 5  | 8/3/23 | 1240 | 5 |
| UST1-SW3-5                  | G | SS   | 5  | 8/3/23 | 1245 | 5 |
| UST1-SW4-5                  | G | SS   | 5  | 8/3/23 | 1250 | 5 |
| UST1-SW <del>4</del> -FL-10 | G | SS   | 10 | 8/3/23 | 1255 | 5 |
| SP-SC-1                     | G | SS   | -  | 8/4/23 | 0750 | 3 |
| SP-SI-1                     | G | SS   | -  | 8/4/23 | 0755 | 3 |
| SP-SI-2                     | G | SS   | -  | 8/4/23 | 0800 | 3 |
| TB-01                       | - | W SS | -  | 8/3/23 | -    | 2 |
|                             |   | SS   |    |        |      |   |

| Analysis / Container / Preservative | EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40miAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40miAmb/MeOH10ml/Syr | VPH WA 40miAmb/MeOH10ml/Syr |
|-------------------------------------|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
|                                     |                      | X                          | X                            | X                     |                            | X                          | X                              |                             |
|                                     |                      | X                          | X                            | X                     |                            | X                          | X                              |                             |
|                                     |                      | X                          | X                            | X                     |                            | X                          | X                              |                             |
|                                     |                      | X                          | X                            | X                     |                            | X                          | X                              |                             |
|                                     |                      | X                          | X                            | X                     |                            | X                          | X                              |                             |
|                                     |                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                                     |                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                                     |                      |                            |                              |                       |                            | X                          | X                              |                             |

SDG # **Ubrtaly**  
 Table # **H175**  
 Acctnum: **STANTECBWA**  
 Template: **T234672**  
 Prelogin: **P1013674**  
 PM: **546 - Jared Starkey**  
 PB: **7/25/23 cam**  
 Shipped Via: **FedEX Standard**  
 Remarks | Sample # (lab only)  
 -01  
 -02  
 -03  
 -04  
 -05  
 -06  
 -07  
 -08  
 -09  
 -01

\* 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 # **6841 8344 9916**

**Sample Receipt Checklist**  
 COC Seal Present/Intact:  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)  
**Paul M. Sumney**

Date: **8/4/23**  
Time: **1530**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes /  No  
 HCl /  MeOH  
 TBR  
 Temp: **63.8°C** Bottles Received: **2**

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **1.7+0=1.7** Bottles Received: **34**

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
**C C (18)**

Date: **8/5/23** Time: **0845**

If preservation required by Login: Date/Time  
 Hold: \_\_\_\_\_ Condition: **NCF / OK**

**Stantec- Bellevue, WA**

Sample Delivery Group: L1645178  
Samples Received: 08/11/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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# SAMPLE SUMMARY

## UST1-D3P1-7 L1645178-01 Solid

Collected by Paul Janney      Collected date/time 08/07/23 13:00      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113121 | 1        | 08/13/23 23:23        | 08/16/23 13:50     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2115088 | 5000     | 08/07/23 13:00        | 08/16/23 12:15     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 20       | 08/07/23 13:00        | 08/12/23 17:35     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113658 | 200      | 08/07/23 13:00        | 08/14/23 16:54     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 11:22     | KAP     | Mt. Juliet, TN |



## UST1-D3P2-7 L1645178-02 Solid

Collected by Paul Janney      Collected date/time 08/07/23 13:10      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:32     | ZSA     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA               | WG2120661 | 10       | 08/07/23 13:10        | 08/29/23 08:27     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2112771 | 500      | 08/07/23 13:10        | 08/12/23 22:05     | BAM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 40       | 08/07/23 13:10        | 08/12/23 17:55     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 08:54     | KAP     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2113964 | 1        | 08/14/23 08:21        | 08/16/23 06:04     | DMG     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2113964 | 1        | 08/14/23 08:21        | 08/16/23 07:55     | DMG     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2113964 | 5        | 08/14/23 08:21        | 08/16/23 09:01     | DMG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2112962 | 1        | 08/13/23 20:07        | 08/14/23 10:34     | AMG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2112962 | 20       | 08/13/23 20:07        | 08/14/23 17:58     | AGW     | Mt. Juliet, TN |

## A5-FL-12 L1645178-03 Solid

Collected by Paul Janney      Collected date/time 08/08/23 09:40      Received date/time 08/11/23 11:35

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2112648 | 1        | 08/12/23 12:42        | 08/12/23 12:58     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2112530 | 25       | 08/08/23 09:40        | 08/12/23 00:37     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2112779 | 1        | 08/08/23 09:40        | 08/12/23 15:19     | ADM     | Mt. Juliet, TN |

## UST3-SW3-3 L1645178-04 Solid

Collected by Paul Janney      Collected date/time 08/08/23 13:30      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:35     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2112616 | 25       | 08/08/23 13:30        | 08/12/23 03:38     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1        | 08/08/23 13:30        | 08/12/23 15:38     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 09:20     | KAP     | Mt. Juliet, TN |

## UST3-SW2-3 L1645178-05 Solid

Collected by Paul Janney      Collected date/time 08/08/23 13:40      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:38     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2112616 | 25       | 08/08/23 13:40        | 08/12/23 07:04     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1        | 08/08/23 13:40        | 08/12/23 15:58     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 13:13     | KAP     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UST3-SW4-4 L1645178-06 Solid

Collected by Paul Janney      Collected date/time 08/08/23 14:20      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:40     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2112616 | 25       | 08/08/23 14:20        | 08/12/23 07:54     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1        | 08/08/23 14:20        | 08/12/23 16:17     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 09:07     | KAP     | Mt. Juliet, TN |



## UST3-SW1-5 L1645178-07 Solid

Collected by Paul Janney      Collected date/time 08/08/23 14:30      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:43     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2112616 | 27.8     | 08/08/23 14:30        | 08/12/23 08:16     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1.11     | 08/08/23 14:30        | 08/12/23 16:37     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 13:26     | KAP     | Mt. Juliet, TN |



## UST2-PIPING-3 L1645178-08 Solid

Collected by Paul Janney      Collected date/time 08/08/23 08:30      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:46     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2115088 | 500      | 08/08/23 08:30        | 08/16/23 11:53     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1        | 08/08/23 08:30        | 08/12/23 16:56     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113658 | 20       | 08/08/23 08:30        | 08/14/23 17:13     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114341 | 200      | 08/08/23 08:30        | 08/16/23 14:55     | BAM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 12:20     | KAP     | Mt. Juliet, TN |



## DUP-01 L1645178-09 Solid

Collected by Paul Janney      Collected date/time 08/08/23 00:00      Received date/time 08/11/23 11:35

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2112654 | 1        | 08/12/23 17:53        | 08/12/23 18:04     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2113086 | 1        | 08/14/23 10:10        | 08/15/23 22:54     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2115088 | 1030     | 08/08/23 00:00        | 08/16/23 14:27     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2112779 | 1.03     | 08/08/23 00:00        | 08/12/23 17:16     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113658 | 10.1     | 08/08/23 00:00        | 08/14/23 17:31     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2112959 | 1        | 08/15/23 00:05        | 08/15/23 12:33     | KAP     | Mt. Juliet, TN |

## TB-01 L1645178-10 GW

Collected by Paul Janney      Collected date/time 08/08/23 00:00      Received date/time 08/11/23 11:35

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2112916 | 1        | 08/12/23 22:40        | 08/12/23 22:40     | DYW     | Mt. Juliet, TN |

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey  
Project Manager



## Volatile Petroleum Hydrocarbons by Method VPHWA

The same analyte is found in the associated blank.

| Batch     | Analyte                     | Lab Sample ID |
|-----------|-----------------------------|---------------|
| WG2120661 | Adjusted C5-C6 Aliphatics   | L1645178-02   |
| WG2120661 | Unadjusted C5-C6 Aliphatics | L1645178-02   |

## Volatile Organic Compounds (GC) by Method NWTPHGX

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID       |
|-----------|-------------------------------|---------------------|
| WG2112530 | Gasoline Range Organics-NWTPH | L1645178-03         |
| WG2112616 | Gasoline Range Organics-NWTPH | L1645178-05, 06, 07 |
| WG2115088 | Gasoline Range Organics-NWTPH | L1645178-01         |

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

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte    | Lab Sample ID |
|-----------|------------|---------------|
| WG2112779 | Toluene-d8 | L1645178-08   |

The same analyte is found in the associated blank.

| Batch     | Analyte | Lab Sample ID |
|-----------|---------|---------------|
| WG2113658 | Toluene | L1645178-08   |

## TPH by Method EPH

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte             | Lab Sample ID |
|-----------|---------------------|---------------|
| WG2113964 | 1-Chloro-octadecane | L1645178-02   |
| WG2113964 | o-Terphenyl         | L1645178-02   |

The same analyte is found in the associated blank.

| Batch     | Analyte            | Lab Sample ID |
|-----------|--------------------|---------------|
| WG2113964 | C21-C34 Aliphatics | L1645178-02   |

# CASE NARRATIVE

## TPH by Method EPH

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The associated batch QC was below the established quality control range for accuracy.

| Batch     | Lab Sample ID                                    | Analytes          |
|-----------|--|-------------------|
| WG2113964 | (LCS) R3961277-5, (LCSD) R3961277-6, L1645178-02 | C12-C16 Aromatics |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch     | Lab Sample ID                      | Analytes          |
|-----------|------------------------------------|-------------------|
| WG2113964 | (MS) R3961277-9, (MSD) R3961277-10 | C12-C16 Aromatics |

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

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The sample matrix interfered with the ability to make any accurate determination; spike value is high.

| Batch     | Lab Sample ID                                  | Analytes                    |
|-----------|--|-----------------------------|
| WG2112959 | (MS) R3960732-3, (MSD) R3960732-4, L1645178-01 | Diesel Range Organics (DRO) |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID                 | Analytes                    |
|-----------|-------------------------------|-----------------------------|
| WG2112959 | (MSD) R3960732-4, L1645178-01 | Diesel Range Organics (DRO) |

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

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Surrogate recovery cannot be used for control limit evaluation due to dilution.

| Batch     | Analyte          | Lab Sample ID |
|-----------|------------------|---------------|
| WG2112962 | 2-Fluorobiphenyl | L1645178-02   |
| WG2112962 | Nitrobenzene-d5  | L1645178-02   |
| WG2112962 | p-Terphenyl-d14  | L1645178-02   |

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte         | Lab Sample ID |
|-----------|-----------------|---------------|
| WG2112962 | Nitrobenzene-d5 | L1645178-02   |

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

| Batch     | Lab Sample ID                     | Analytes    |
|-----------|-----------------------------------|-------------|
| WG2112962 | (MS) R3960367-3, (MSD) R3960367-4 | 14 analytes |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID    | Analytes    |
|-----------|------------------|-------------|
| WG2112962 | (MSD) R3960367-4 | 13 analytes |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.2   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 4.47         |           | 0.259     | 0.624     | 1        | 08/16/2023 13:50 | <a href="#">WG2113121</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2010         | <u>B</u>  | 264       | 780       | 5000     | 08/16/2023 12:15 | <a href="#">WG2115088</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.1         |           |           | 77.0-120  |          | 08/16/2023 12:15 | <a href="#">WG2115088</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.79         |           | 0.0146    | 0.0312    | 20       | 08/12/2023 17:35 | <a href="#">WG2112779</a> |
| Toluene                   | 16.8         |           | 0.0405    | 0.156     | 20       | 08/12/2023 17:35 | <a href="#">WG2112779</a> |
| Ethylbenzene              | 148          |           | 0.228     | 0.777     | 200      | 08/14/2023 16:54 | <a href="#">WG2113658</a> |
| Total Xylenes             | 598          |           | 0.273     | 2.02      | 200      | 08/14/2023 16:54 | <a href="#">WG2113658</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/12/2023 17:35 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 08/14/2023 16:54 | <a href="#">WG2113658</a> |
| (S) 4-Bromofluorobenzene  | 99.2         |           |           | 67.0-138  |          | 08/12/2023 17:35 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 98.3         |           |           | 67.0-138  |          | 08/14/2023 16:54 | <a href="#">WG2113658</a> |
| (S) 1,2-Dichloroethane-d4 | 91.8         |           |           | 70.0-130  |          | 08/12/2023 17:35 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 93.0         |           |           | 70.0-130  |          | 08/14/2023 16:54 | <a href="#">WG2113658</a> |

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

| Analyte                       | Result (dry) | Qualifier    | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|--------------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 44.9         | <u>J3 J5</u> | 1.66      | 4.99      | 1        | 08/15/2023 11:22 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | U            |              | 4.15      | 12.5      | 1        | 08/15/2023 11:22 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 36.8         |              |           | 18.0-148  |          | 08/15/2023 11:22 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-01 WG2112959: Sample resembles laboratory standard for Stoddard solvent.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 86.9   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 0.884        |           | 0.239     | 0.575     | 1        | 08/15/2023 22:32 | <a href="#">WG2113086</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | 75.3         | B         | 21.8      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| Adjusted C5-C6 Aliphatics    | 75.3         | B         | 21.8      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| Unadjusted C6-C8 Aliphatics  | 300          |           | 5.99      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| Adjusted C6-C8 Aliphatics    | 300          |           | 5.99      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| Unadjusted C8-C10 Aliphatics | 690          |           | 21.8      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| Adjusted C8-C10 Aliphatics   | 430          |           | 21.8      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| C8-C10 Aromatics             | 1030         |           | 7.30      | 65.8      | 10       | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(FID)  | 89.1         |           |           | 60.0-140  |          | 08/29/2023 08:27 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(PID)  | 90.3         |           |           | 60.0-140  |          | 08/29/2023 08:27 | <a href="#">WG2120661</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2630         |           | 22.2      | 65.7      | 500      | 08/12/2023 22:05 | <a href="#">WG2112771</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.4         |           |           | 77.0-120  |          | 08/12/2023 22:05 | <a href="#">WG2112771</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.542        |           | 0.0246    | 0.0526    | 40       | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| Toluene                   | 24.7         |           | 0.0684    | 0.263     | 40       | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| Ethylbenzene              | 33.3         |           | 0.0388    | 0.131     | 40       | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| Total Xylenes             | 201          |           | 0.0463    | 0.342     | 40       | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 94.1         |           |           | 67.0-138  |          | 08/12/2023 17:55 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 89.4         |           |           | 70.0-130  |          | 08/12/2023 17:55 | <a href="#">WG2112779</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 150          |           | 1.53      | 4.60      | 1        | 08/15/2023 08:54 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | U            |           | 3.83      | 11.5      | 1        | 08/15/2023 08:54 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 46.9         |           |           | 18.0-148  |          | 08/15/2023 08:54 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-02 WG2112959: Sample resembles laboratory standard for Stoddard solvent.



UST1-D3P2-7

SAMPLE RESULTS - 02

Collected date/time: 08/07/23 13:10

L1645178

TPH by Method EPH

| Analyte                 | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch     |
|-------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|-----------|
| C10-C12 Aliphatics      | 32.2                  |           | 1.93               | 5.75               | 1        | 08/16/2023 07:55        | WG2113964 |
| C12-C16 Aliphatics      | 14.4                  |           | 1.93               | 5.75               | 1        | 08/16/2023 07:55        | WG2113964 |
| C16-C21 Aliphatics      | U                     |           | 1.93               | 5.75               | 1        | 08/16/2023 07:55        | WG2113964 |
| C21-C34 Aliphatics      | 10.7                  | B         | 1.93               | 5.75               | 1        | 08/16/2023 07:55        | WG2113964 |
| C10-C12 Aromatics       | 79.4                  |           | 12.2               | 28.8               | 5        | 08/16/2023 09:01        | WG2113964 |
| C12-C16 Aromatics       | 27.3                  | J4        | 2.44               | 5.75               | 1        | 08/16/2023 06:04        | WG2113964 |
| C16-C21 Aromatics       | 4.36                  | J         | 2.44               | 5.75               | 1        | 08/16/2023 06:04        | WG2113964 |
| C21-C34 Aromatics       | 7.69                  |           | 2.44               | 5.75               | 1        | 08/16/2023 06:04        | WG2113964 |
| (S) o-Terphenyl         | 63.4                  | J2        |                    | 70.0-130           |          | 08/16/2023 09:01        | WG2113964 |
| (S) o-Terphenyl         | 63.0                  | J2        |                    | 70.0-130           |          | 08/16/2023 06:04        | WG2113964 |
| (S) 1-Chloro-octadecane | 64.7                  | J2        |                    | 70.0-130           |          | 08/16/2023 07:55        | WG2113964 |
| (S) 2-Fluorobiphenyl    | 89.3                  |           |                    | 70.0-130           |          | 08/16/2023 09:01        | WG2113964 |
| (S) 2-Fluorobiphenyl    | 92.4                  |           |                    | 70.0-130           |          | 08/16/2023 06:04        | WG2113964 |
| (S) 2-Bromonaphthalene  | 93.0                  |           |                    | 70.0-130           |          | 08/16/2023 06:04        | WG2113964 |
| (S) 2-Bromonaphthalene  | 87.0                  |           |                    | 70.0-130           |          | 08/16/2023 09:01        | WG2113964 |

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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|-----------|
| Anthracene             | U                     |           | 0.00265            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Acenaphthene           | 0.0486                |           | 0.00241            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Acenaphthylene         | U                     |           | 0.00249            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Benzo(a)anthracene     | 0.00429               | J         | 0.00199            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Benzo(a)pyrene         | 0.00238               | J         | 0.00206            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Benzo(b)fluoranthene   | U                     |           | 0.00176            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Benzo(g,h,i)perylene   | 0.00322               | J         | 0.00204            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Benzo(k)fluoranthene   | U                     |           | 0.00247            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Chrysene               | 0.00359               | J         | 0.00267            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Dibenz(a,h)anthracene  | U                     |           | 0.00198            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Fluoranthene           | 0.0129                |           | 0.00261            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Fluorene               | 0.0490                |           | 0.00236            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00208            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Naphthalene            | 22.0                  |           | 0.0939             | 0.460              | 20       | 08/14/2023 17:58        | WG2112962 |
| Phenanthrene           | 0.0640                |           | 0.00266            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| Pyrene                 | 0.0168                |           | 0.00230            | 0.00691            | 1        | 08/14/2023 10:34        | WG2112962 |
| 1-Methylnaphthalene    | 13.9                  |           | 0.103              | 0.460              | 20       | 08/14/2023 17:58        | WG2112962 |
| 2-Methylnaphthalene    | 30.5                  |           | 0.0983             | 0.460              | 20       | 08/14/2023 17:58        | WG2112962 |
| 2-Chloronaphthalene    | U                     |           | 0.00536            | 0.0230             | 1        | 08/14/2023 10:34        | WG2112962 |
| (S) p-Terphenyl-d14    | 75.0                  |           |                    | 23.0-120           |          | 08/14/2023 10:34        | WG2112962 |
| (S) p-Terphenyl-d14    | 82.0                  | J7        |                    | 23.0-120           |          | 08/14/2023 17:58        | WG2112962 |
| (S) Nitrobenzene-d5    | 0.000                 | J2        |                    | 14.0-149           |          | 08/14/2023 10:34        | WG2112962 |
| (S) Nitrobenzene-d5    | 0.000                 | J7        |                    | 14.0-149           |          | 08/14/2023 17:58        | WG2112962 |
| (S) 2-Fluorobiphenyl   | 79.9                  |           |                    | 34.0-125           |          | 08/14/2023 10:34        | WG2112962 |
| (S) 2-Fluorobiphenyl   | 77.1                  | J7        |                    | 34.0-125           |          | 08/14/2023 17:58        | WG2112962 |

Sample Narrative:

L1645178-02 WG2112962: Surrogate failure due to matrix interference

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 86.7   |           | 1        | 08/12/2023 12:58     | <a href="#">WG2112648</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.40               | <a href="#">B J</a> | 1.11            | 3.27            | 25       | 08/12/2023 00:37     | <a href="#">WG2112530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 101                |                     |                 | 77.0-120        |          | 08/12/2023 00:37     | <a href="#">WG2112530</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.00411            |           | 0.000610        | 0.00131         | 1        | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| Toluene                   | 0.0111             |           | 0.00170         | 0.00653         | 1        | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| Ethylbenzene              | 0.00775            |           | 0.000963        | 0.00327         | 1        | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| Total Xylenes             | 0.0159             |           | 0.00115         | 0.00849         | 1        | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 114                |           |                 | 75.0-131        |          | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 92.6               |           |                 | 67.0-138        |          | 08/12/2023 15:19     | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 82.8               |           |                 | 70.0-130        |          | 08/12/2023 15:19     | <a href="#">WG2112779</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.1   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 10.5         |           | 0.260     | 0.624     | 1        | 08/15/2023 22:35 | <a href="#">WG2113086</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 23.3         |           | 1.36      | 4.00      | 25       | 08/12/2023 03:38 | <a href="#">WG2112616</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.2         |           |           | 77.0-120  |          | 08/12/2023 03:38 | <a href="#">WG2112616</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00539      |           | 0.000746  | 0.00160   | 1        | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| Toluene                   | 0.0106       |           | 0.00208   | 0.00799   | 1        | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| Ethylbenzene              | 0.0676       |           | 0.00118   | 0.00400   | 1        | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| Total Xylenes             | 0.0238       |           | 0.00141   | 0.0104    | 1        | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 110          |           |           | 75.0-131  |          | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 89.4         |           |           | 67.0-138  |          | 08/12/2023 15:38 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 87.9         |           |           | 70.0-130  |          | 08/12/2023 15:38 | <a href="#">WG2112779</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 31.1         |           | 1.66      | 4.99      | 1        | 08/15/2023 09:20 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | U            |           | 4.15      | 12.5      | 1        | 08/15/2023 09:20 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 63.3         |           |           | 18.0-148  |          | 08/15/2023 09:20 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-04 WG2112959: Sample resembles laboratory standard for Kerosene.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 88.0   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 11.9         |           | 0.236     | 0.568     | 1        | 08/15/2023 22:38 | <a href="#">WG2113086</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier  | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.67         |            | 1.09      | 3.21      | 25       | 08/12/2023 07:04 | <a href="#">WG2112616</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.1         | <u>B J</u> |           | 77.0-120  |          | 08/12/2023 07:04 | <a href="#">WG2112616</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000600  | 0.00128   | 1        | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| Toluene                   | 0.00425      | <u>J</u>  | 0.00167   | 0.00642   | 1        | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| Ethylbenzene              | U            |           | 0.000947  | 0.00321   | 1        | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| Total Xylenes             | 0.0121       |           | 0.00113   | 0.00835   | 1        | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 95.2         |           |           | 67.0-138  |          | 08/12/2023 15:58 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 87.8         |           |           | 70.0-130  |          | 08/12/2023 15:58 | <a href="#">WG2112779</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 4.65         |           | 1.51      | 4.54      | 1        | 08/15/2023 13:13 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | 17.4         |           | 3.78      | 11.4      | 1        | 08/15/2023 13:13 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 58.9         |           |           | 18.0-148  |          | 08/15/2023 13:13 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-05 WG2112959: Sample resembles laboratory standard for Hydraulic Oil.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 97.1   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 6.43         |           | 0.214     | 0.515     | 1        | 08/15/2023 22:40 | <a href="#">WG2113086</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.40         | <u>B</u>  | 0.900     | 2.65      | 25       | 08/12/2023 07:54 | <a href="#">WG2112616</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.5         |           |           | 77.0-120  |          | 08/12/2023 07:54 | <a href="#">WG2112616</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00102      | <u>J</u>  | 0.000496  | 0.00106   | 1        | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| Toluene                   | 0.0126       |           | 0.00138   | 0.00531   | 1        | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| Ethylbenzene              | 0.00913      |           | 0.000783  | 0.00265   | 1        | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| Total Xylenes             | 0.0723       |           | 0.000934  | 0.00690   | 1        | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 118          |           |           | 75.0-131  |          | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 95.2         |           |           | 67.0-138  |          | 08/12/2023 16:17 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 86.8         |           |           | 70.0-130  |          | 08/12/2023 16:17 | <a href="#">WG2112779</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | U            |           | 1.37      | 4.12      | 1        | 08/15/2023 09:07 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | U            |           | 3.43      | 10.3      | 1        | 08/15/2023 09:07 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 52.3         |           |           | 18.0-148  |          | 08/15/2023 09:07 | <a href="#">WG2112959</a> |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.2   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 8.42         |           | 0.259     | 0.623     | 1        | 08/15/2023 22:43 | <a href="#">WG2113086</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5.86         | <u>B</u>  | 1.38      | 4.08      | 27.8     | 08/12/2023 08:16 | <a href="#">WG2112616</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.5         |           |           | 77.0-120  |          | 08/12/2023 08:16 | <a href="#">WG2112616</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00262      |           | 0.000761  | 0.00163   | 1.11     | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| Toluene                   | 0.00627      | <u>J</u>  | 0.00212   | 0.00815   | 1.11     | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| Ethylbenzene              | U            |           | 0.00120   | 0.00408   | 1.11     | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| Total Xylenes             | 0.0117       |           | 0.00144   | 0.0106    | 1.11     | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 95.3         |           |           | 67.0-138  |          | 08/12/2023 16:37 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 92.1         |           |           | 70.0-130  |          | 08/12/2023 16:37 | <a href="#">WG2112779</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 25.6         |           | 1.66      | 4.99      | 1        | 08/15/2023 13:26 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | 66.1         |           | 4.15      | 12.5      | 1        | 08/15/2023 13:26 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 53.9         |           |           | 18.0-148  |          | 08/15/2023 13:26 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-07 WG2112959: Sample resembles laboratory standard for Hydraulic Oil.



# UST2-PIPING-3

Collected date/time: 08/08/23 08:30

# SAMPLE RESULTS - 08

L1645178

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.2   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

## Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 3.22         |           | 0.259     | 0.624     | 1        | 08/15/2023 22:46 | <a href="#">WG2113086</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3800         |           | 25.3      | 74.7      | 500      | 08/16/2023 11:53 | <a href="#">WG2115088</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.8         |           |           | 77.0-120  |          | 08/16/2023 11:53 | <a href="#">WG2115088</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.87         |           | 0.000698  | 0.00149   | 1        | 08/12/2023 16:56 | <a href="#">WG2112779</a> |
| Toluene                   | 8.88         | B         | 0.0389    | 0.149     | 20       | 08/14/2023 17:13 | <a href="#">WG2113658</a> |
| Ethylbenzene              | 26.3         |           | 0.0220    | 0.0747    | 20       | 08/14/2023 17:13 | <a href="#">WG2113658</a> |
| Total Xylenes             | 227          |           | 0.263     | 1.94      | 200      | 08/16/2023 14:55 | <a href="#">WG2114341</a> |
| (S) Toluene-d8            | 68.2         | J2        |           | 75.0-131  |          | 08/12/2023 16:56 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 98.3         |           |           | 75.0-131  |          | 08/14/2023 17:13 | <a href="#">WG2113658</a> |
| (S) Toluene-d8            | 109          |           |           | 75.0-131  |          | 08/16/2023 14:55 | <a href="#">WG2114341</a> |
| (S) 4-Bromofluorobenzene  | 138          |           |           | 67.0-138  |          | 08/12/2023 16:56 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 99.3         |           |           | 67.0-138  |          | 08/14/2023 17:13 | <a href="#">WG2113658</a> |
| (S) 4-Bromofluorobenzene  | 91.3         |           |           | 67.0-138  |          | 08/16/2023 14:55 | <a href="#">WG2114341</a> |
| (S) 1,2-Dichloroethane-d4 | 89.9         |           |           | 70.0-130  |          | 08/12/2023 16:56 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 98.5         |           |           | 70.0-130  |          | 08/14/2023 17:13 | <a href="#">WG2113658</a> |
| (S) 1,2-Dichloroethane-d4 | 96.6         |           |           | 70.0-130  |          | 08/16/2023 14:55 | <a href="#">WG2114341</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 97.3         |           | 1.66      | 4.99      | 1        | 08/15/2023 12:20 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | 7.60         | J         | 4.15      | 12.5      | 1        | 08/15/2023 12:20 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 28.6         |           |           | 18.0-148  |          | 08/15/2023 12:20 | <a href="#">WG2112959</a> |

### Sample Narrative:

L1645178-08 WG2112959: Sample resembles laboratory standard for Stoddard solvent.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 81.7   |           | 1        | 08/12/2023 18:04 | <a href="#">WG2112654</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 3.99         |           | 0.254     | 0.612     | 1        | 08/15/2023 22:54 | <a href="#">WG2113086</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1990         |           | 50.3      | 148       | 1030     | 08/16/2023 14:27 | <a href="#">WG2115088</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.7         |           |           | 77.0-120  |          | 08/16/2023 14:27 | <a href="#">WG2115088</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.695        |           | 0.000693  | 0.00148   | 1.03     | 08/12/2023 17:16 | <a href="#">WG2112779</a> |
| Toluene                   | 2.28         |           | 0.00193   | 0.00742   | 1.03     | 08/12/2023 17:16 | <a href="#">WG2112779</a> |
| Ethylbenzene              | 6.69         |           | 0.0108    | 0.0366    | 10.1     | 08/14/2023 17:31 | <a href="#">WG2113658</a> |
| Total Xylenes             | 71.9         |           | 0.0129    | 0.0948    | 10.1     | 08/14/2023 17:31 | <a href="#">WG2113658</a> |
| (S) Toluene-d8            | 118          |           |           | 75.0-131  |          | 08/12/2023 17:16 | <a href="#">WG2112779</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/14/2023 17:31 | <a href="#">WG2113658</a> |
| (S) 4-Bromofluorobenzene  | 92.3         |           |           | 67.0-138  |          | 08/12/2023 17:16 | <a href="#">WG2112779</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/14/2023 17:31 | <a href="#">WG2113658</a> |
| (S) 1,2-Dichloroethane-d4 | 84.6         |           |           | 70.0-130  |          | 08/12/2023 17:16 | <a href="#">WG2112779</a> |
| (S) 1,2-Dichloroethane-d4 | 95.8         |           |           | 70.0-130  |          | 08/14/2023 17:31 | <a href="#">WG2113658</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 160          |           | 1.63      | 4.89      | 1        | 08/15/2023 12:33 | <a href="#">WG2112959</a> |
| Residual Range Organics (RRO) | 20.1         |           | 4.07      | 12.2      | 1        | 08/15/2023 12:33 | <a href="#">WG2112959</a> |
| (S) o-Terphenyl               | 61.3         |           |           | 18.0-148  |          | 08/15/2023 12:33 | <a href="#">WG2112959</a> |

Sample Narrative:

L1645178-09 WG2112959: Sample resembles laboratory standard for Stoddard solvent and Kerosene.



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

| Analyte                          | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|----------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                  | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                          | U      |           | 0.0941 | 1.00     | 1        | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| Toluene                          | U      |           | 0.278  | 1.00     | 1        | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| Ethylbenzene                     | U      |           | 0.137  | 1.00     | 1        | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| Total Xylenes                    | U      |           | 0.174  | 3.00     | 1        | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| <i>(S) Toluene-d8</i>            | 107    |           |        | 80.0-120 |          | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 99.0   |           |        | 77.0-126 |          | 08/12/2023 22:40 | <a href="#">WG2112916</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 105    |           |        | 70.0-130 |          | 08/12/2023 22:40 | <a href="#">WG2112916</a> |

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

Method Blank (MB)

(MB) R3960095-1 08/12/23 12:58

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1645178-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1645178-03 08/12/23 12:58 • (DUP) R3960095-3 08/12/23 12:58

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 86.7            | 85.3       | 1        | 1.67    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3960095-2 08/12/23 12:58

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960179-1 08/12/23 18:04

| Analyte      | MB Result<br>% | MB Qualifier | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|--------------|-------------|-------------|
| Total Solids | 0.00100        |              |             |             |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1645232-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1645232-01 08/12/23 18:04 • (DUP) R3960179-3 08/12/23 18:04

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|---------------|-------------------|
| Total Solids | 92.0                 | 92.0            | 1        | 0.0486       |               | 10                |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3960179-2 08/12/23 18:04

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|--------------|-------------------|-----------------|---------------|------------------|---------------|
| Total Solids | 50.0              | 50.0            | 100           | 85.0-115         |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961239-1 08/15/23 21:48

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3961239-2 08/15/23 21:51

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 96.2                | 96.2          | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1645028-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645028-03 08/15/23 21:54 • (MS) R3961239-5 08/15/23 22:01 • (MSD) R3961239-6 08/15/23 22:04

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 112                         | 9.47                           | 107                      | 109                       | 87.0         | 89.0          | 1        | 75.0-125         |              |               | 2.03     | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961455-1 08/16/23 13:45

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3961455-2 08/16/23 13:47

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 95.8                | 95.8          | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1645178-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645178-01 08/16/23 13:50 • (MS) R3961455-5 08/16/23 13:58 • (MSD) R3961455-6 08/16/23 14:00

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 125                         | 4.47                           | 127                      | 128                       | 98.2         | 99.3          | 1        | 75.0-125         |              |               | 1.09     | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3967194-3 08/29/23 02:44

| Analyte                      | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------|--------------------|--------------|-----------------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 2.08               | U            | 1.67            | 5.00            |
| Adjusted C5-C6 Aliphatics    | 2.08               | U            | 1.67            | 5.00            |
| Unadjusted C6-C8 Aliphatics  | U                  |              | 0.455           | 5.00            |
| Adjusted C6-C8 Aliphatics    | U                  |              | 0.455           | 5.00            |
| Unadjusted C8-C10 Aliphatics | U                  |              | 1.67            | 5.00            |
| Adjusted C8-C10 Aliphatics   | U                  |              | 1.67            | 5.00            |
| C8-C10 Aromatics             | U                  |              | 0.555           | 5.00            |
| (S) 2,5-Dibromotoluene(FID)  | 76.3               |              |                 | 60.0-140        |
| (S) 2,5-Dibromotoluene(PID)  | 88.1               |              |                 | 60.0-140        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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

(LCS) R3967194-1 08/29/23 00:27 • (LCSD) R3967194-2 08/29/23 01:02

| Analyte                      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 30.0                  | 25.3                | 26.2                 | 84.3          | 87.3           | 70.0-130         |               |                | 3.50     | 25              |
| Unadjusted C6-C8 Aliphatics  | 20.0                  | 18.5                | 19.2                 | 92.5          | 96.0           | 70.0-130         |               |                | 3.71     | 25              |
| Unadjusted C8-C10 Aliphatics | 60.0                  | 66.0                | 68.9                 | 110           | 115            | 70.0-130         |               |                | 4.30     | 25              |
| C8-C10 Aromatics             | 50.0                  | 61.4                | 63.3                 | 123           | 127            | 70.0-130         |               |                | 3.05     | 25              |
| (S) 2,5-Dibromotoluene(FID)  |                       |                     |                      | 83.7          | 86.5           | 60.0-140         |               |                |          |                 |
| (S) 2,5-Dibromotoluene(PID)  |                       |                     |                      | 93.2          | 95.9           | 60.0-140         |               |                |          |                 |

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3960312-2 08/11/23 23:36

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.40               | J            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 108                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3960312-1 08/11/23 22:30

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 138                   | 135                 | 97.8          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 112           | 77.0-120         |               |

L1643950-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1643950-01 08/12/23 00:55 • (MS) R3960312-3 08/12/23 06:43 • (MSD) R3960312-4 08/12/23 07:01

| Analyte                            | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 139                         | 1.28                           | 126                      | 117                       | 90.1         | 83.6          | 25       | 50.0-150         |              |               | 7.41     | 27              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                             |                                |                          |                           | 116          | 110           |          | 77.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3961273-2 08/12/23 03:16

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.01               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.0               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3961273-1 08/12/23 01:07

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 6.05                | 110           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 101           | 77.0-120         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960958-4 08/12/23 16:24

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 1.32               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 92.1               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3960958-3 08/12/23 14:45

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.50                | 100           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 99.2          | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3961461-2 08/16/23 10:37

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.09               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.8               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3961461-1 08/16/23 09:52

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.35                | 97.3          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 100           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3960196-3 08/12/23 11:06

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 115       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 87.3      |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 89.0      |              |          | 70.0-130 |

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

(LCS) R3960196-1 08/12/23 09:28 • (LCSD) R3960196-2 08/12/23 09:48

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %    | %          |
| Benzene                          | 0.125        | 0.113      | 0.108       | 90.4     | 86.4      | 70.0-123    |               |                | 4.52 | 20         |
| Toluene                          | 0.125        | 0.123      | 0.125       | 98.4     | 100       | 75.0-121    |               |                | 1.61 | 20         |
| Ethylbenzene                     | 0.125        | 0.125      | 0.122       | 100      | 97.6      | 74.0-126    |               |                | 2.43 | 20         |
| Total Xylenes                    | 0.375        | 0.349      | 0.338       | 93.1     | 90.1      | 72.0-127    |               |                | 3.20 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 110      | 110       | 75.0-131    |               |                |      |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 88.8     | 86.5      | 67.0-138    |               |                |      |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 98.6     | 95.3      | 70.0-130    |               |                |      |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960751-3 08/14/23 08:47

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Toluene                   | 0.00133            | U            | 0.00130         | 0.00500         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 105                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 95.9               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 92.2               |              |                 | 70.0-130        |

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

(LCS) R3960751-1 08/14/23 07:12 • (LCSD) R3960751-2 08/14/23 07:31

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Toluene                   | 0.125                 | 0.107               | 0.126                | 85.6          | 101            | 75.0-121         |               |                | 16.3     | 20              |
| Ethylbenzene              | 0.125                 | 0.105               | 0.124                | 84.0          | 99.2           | 74.0-126         |               |                | 16.6     | 20              |
| Total Xylenes             | 0.375                 | 0.306               | 0.360                | 81.6          | 96.0           | 72.0-127         |               |                | 16.2     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 102           | 100            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 96.4          | 96.8           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 101           | 100            | 70.0-130         |               |                |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3961532-3 08/16/23 13:09

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 112                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 89.1               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 87.1               |              |                 | 70.0-130        |

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

(LCS) R3961532-1 08/16/23 11:31 • (LCSD) R3961532-2 08/16/23 11:51

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Total Xylenes             | 0.375                 | 0.371               | 0.373                | 98.9          | 99.5           | 72.0-127         |               |                | 0.538    | 20              |
| (S) Toluene-d8            |                       |                     |                      | 110           | 110            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 92.0          | 91.8           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 95.6          | 96.4           | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961067-3 08/12/23 21:59

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 104       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 103       |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 105       |              |        | 70.0-130 |

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

(LCS) R3961067-1 08/12/23 21:02 • (LCSD) R3961067-2 08/12/23 21:21

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 5.00         | 4.86       | 4.87        | 97.2     | 97.4      | 70.0-123    |               |                | 0.206 | 20         |
| Toluene                          | 5.00         | 4.75       | 4.76        | 95.0     | 95.2      | 79.0-120    |               |                | 0.210 | 20         |
| Ethylbenzene                     | 5.00         | 4.61       | 4.62        | 92.2     | 92.4      | 79.0-123    |               |                | 0.217 | 20         |
| Total Xylenes                    | 15.0         | 14.3       | 13.6        | 95.3     | 90.7      | 79.0-123    |               |                | 5.02  | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 106      | 104       | 80.0-120    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 99.3     | 97.4      | 77.0-126    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 103      | 103       | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960732-1 08/15/23 08:14

| Analyte                       | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------------|--------------------|--------------|-----------------|-----------------|
| Diesel Range Organics (DRO)   | U                  |              | 1.33            | 4.00            |
| Residual Range Organics (RRO) | U                  |              | 3.33            | 10.0            |
| <i>(S) o-Terphenyl</i>        | 49.5               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3960732-2 08/15/23 08:27

| Analyte                     | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Diesel Range Organics (DRO) | 50.0                  | 41.8                | 83.6          | 50.0-150         |               |
| <i>(S) o-Terphenyl</i>      |                       |                     | 79.4          | 18.0-148         |               |

L1645178-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645178-01 08/15/23 11:22 • (MS) R3960732-3 08/15/23 11:35 • (MSD) R3960732-4 08/15/23 11:48

| Analyte                     | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Diesel Range Organics (DRO) | 61.6                        | 44.9                           | 287                      | 379                       | 393          | 538           | 1        | 50.0-150         | J5           | J3 J5         | 27.7     | 20              |
| <i>(S) o-Terphenyl</i>      |                             |                                |                          |                           | 44.1         | 63.0          |          | 18.0-148         |              |               |          |                 |

Sample Narrative:

OS: Sample resembles laboratory standard for Stoddard solvent.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3961277-1 08/16/23 00:32

| Analyte                 | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C12-C16 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C16-C21 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C21-C34 Aliphatics      | 3.17               | J            | 1.68            | 5.00            |
| (S) 1-Chloro-octadecane | 86.3               |              |                 | 70.0-130        |

Method Blank (MB)

(MB) R3961277-4 08/16/23 01:39

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aromatics      | U                  |              | 2.12            | 5.00            |
| C12-C16 Aromatics      | U                  |              | 2.12            | 5.00            |
| C16-C21 Aromatics      | U                  |              | 2.12            | 5.00            |
| C21-C34 Aromatics      | U                  |              | 2.12            | 5.00            |
| (S) o-Terphenyl        | 78.9               |              |                 | 70.0-130        |
| (S) 2-Fluorobiphenyl   | 88.7               |              |                 | 70.0-130        |
| (S) 2-Bromonaphthalene | 91.5               |              |                 | 70.0-130        |

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

(LCS) R3961277-2 08/16/23 00:54 • (LCSD) R3961277-3 08/16/23 01:17

| Analyte                 | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aliphatics      | 6.65                  | 4.79                | 5.04                 | 72.0          | 75.8           | 70.0-130         |               |                | 5.09     | 20              |
| C12-C16 Aliphatics      | 13.3                  | 10.3                | 10.4                 | 77.4          | 78.2           | 70.0-130         |               |                | 0.966    | 20              |
| C16-C21 Aliphatics      | 20.0                  | 17.0                | 17.1                 | 85.0          | 85.5           | 70.0-130         |               |                | 0.587    | 20              |
| C21-C34 Aliphatics      | 33.3                  | 27.9                | 28.1                 | 83.8          | 84.4           | 70.0-130         |               |                | 0.714    | 20              |
| (S) 1-Chloro-octadecane |                       |                     |                      | 74.4          | 74.1           | 70.0-130         |               |                |          |                 |

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

(LCS) R3961277-5 08/16/23 02:01 • (LCSD) R3961277-6 08/16/23 02:23

| Analyte           | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aromatics | 6.65                  | 4.68                | 4.92                 | 70.4          | 74.0           | 70.0-130         |               |                | 5.00     | 20              |
| C12-C16 Aromatics | 20.0                  | 13.3                | 13.6                 | 66.5          | 68.0           | 70.0-130         | J4            | J4             | 2.23     | 20              |
| C16-C21 Aromatics | 33.3                  | 25.9                | 26.1                 | 77.8          | 78.4           | 70.0-130         |               |                | 0.769    | 20              |
| C21-C34 Aromatics | 53.2                  | 41.7                | 40.7                 | 78.4          | 76.5           | 70.0-130         |               |                | 2.43     | 20              |



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

(LCS) R3961277-5 08/16/23 02:01 • (LCSD) R3961277-6 08/16/23 02:23

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| (S) o-Terphenyl        |                       |                     |                      | 76.7          | 76.3           | 70.0-130         |                      |                       |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                     |                      | 93.6          | 89.7           | 70.0-130         |                      |                       |          |                 |
| (S) 2-Bromonaphthalene |                       |                     |                      | 93.0          | 88.0           | 70.0-130         |                      |                       |          |                 |

L1644969-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1644969-06 08/16/23 10:34 • (MS) R3961277-7 08/16/23 11:40 • (MSD) R3961277-8 08/16/23 12:10

| Analyte                 | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| C10-C12 Aliphatics      | 7.26                           | U                                 | 5.54                     | 5.91                         | 76.4         | 82.6          | 1        | 70.0-130         |                     |                      | 6.34     | 20              |
| C12-C16 Aliphatics      | 14.5                           | U                                 | 11.4                     | 11.9                         | 78.8         | 83.1          | 1        | 70.0-130         |                     |                      | 3.77     | 20              |
| C16-C21 Aliphatics      | 21.8                           | U                                 | 19.1                     | 19.6                         | 87.9         | 91.3          | 1        | 70.0-130         |                     |                      | 2.27     | 20              |
| C21-C34 Aliphatics      | 36.3                           | 4.04                              | 32.0                     | 32.4                         | 77.1         | 79.5          | 1        | 70.0-130         |                     |                      | 1.37     | 20              |
| (S) 1-Chloro-octadecane |                                |                                   |                          |                              | 75.9         | 79.8          |          | 70.0-130         |                     |                      |          |                 |

L1644969-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1644969-06 08/16/23 12:32 • (MS) R3961277-9 08/16/23 12:54 • (MSD) R3961277-10 08/16/23 13:16

| Analyte                | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|---------------------|----------------------|----------|-----------------|
| C10-C12 Aromatics      | 7.26                           | U                                 | 5.35                     | 5.47                         | 73.6         | 76.5          | 1        | 70.0-130         |                     |                      | 2.24     | 20              |
| C12-C16 Aromatics      | 21.8                           | U                                 | 14.8                     | 14.8                         | 68.2         | 69.2          | 1        | 70.0-130         | J6                  | J6                   | 0.000    | 20              |
| C16-C21 Aromatics      | 36.3                           | U                                 | 28.9                     | 28.3                         | 79.7         | 79.1          | 1        | 70.0-130         |                     |                      | 2.31     | 20              |
| C21-C34 Aromatics      | 58.1                           | U                                 | 45.9                     | 44.9                         | 79.0         | 78.5          | 1        | 70.0-130         |                     |                      | 2.18     | 20              |
| (S) o-Terphenyl        |                                |                                   |                          |                              | 79.5         | 78.8          |          | 70.0-130         |                     |                      |          |                 |
| (S) 2-Fluorobiphenyl   |                                |                                   |                          |                              | 94.1         | 91.5          |          | 70.0-130         |                     |                      |          |                 |
| (S) 2-Bromonaphthalene |                                |                                   |                          |                              | 94.3         | 92.1          |          | 70.0-130         |                     |                      |          |                 |



Method Blank (MB)

(MB) R3960367-2 08/14/23 09:58

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene             | U                  |              | 0.00230         | 0.00600         |
| Acenaphthene           | U                  |              | 0.00209         | 0.00600         |
| Acenaphthylene         | U                  |              | 0.00216         | 0.00600         |
| Benzo(a)anthracene     | U                  |              | 0.00173         | 0.00600         |
| Benzo(a)pyrene         | U                  |              | 0.00179         | 0.00600         |
| Benzo(b)fluoranthene   | U                  |              | 0.00153         | 0.00600         |
| Benzo(g,h,i)perylene   | U                  |              | 0.00177         | 0.00600         |
| Benzo(k)fluoranthene   | U                  |              | 0.00215         | 0.00600         |
| Chrysene               | U                  |              | 0.00232         | 0.00600         |
| Dibenz(a,h)anthracene  | U                  |              | 0.00172         | 0.00600         |
| Fluoranthene           | U                  |              | 0.00227         | 0.00600         |
| Fluorene               | U                  |              | 0.00205         | 0.00600         |
| Indeno(1,2,3-cd)pyrene | U                  |              | 0.00181         | 0.00600         |
| Naphthalene            | U                  |              | 0.00408         | 0.0200          |
| Phenanthrene           | U                  |              | 0.00231         | 0.00600         |
| Pyrene                 | U                  |              | 0.00200         | 0.00600         |
| 1-Methylnaphthalene    | U                  |              | 0.00449         | 0.0200          |
| 2-Methylnaphthalene    | U                  |              | 0.00427         | 0.0200          |
| 2-Chloronaphthalene    | U                  |              | 0.00466         | 0.0200          |
| (S) p-Terphenyl-d14    | 87.3               |              |                 | 23.0-120        |
| (S) Nitrobenzene-d5    | 83.9               |              |                 | 14.0-149        |
| (S) 2-Fluorobiphenyl   | 90.3               |              |                 | 34.0-125        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3960367-1 08/14/23 09:40

| Analyte               | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene            | 0.0800                | 0.0727              | 90.9          | 50.0-126         |               |
| Acenaphthene          | 0.0800                | 0.0712              | 89.0          | 50.0-120         |               |
| Acenaphthylene        | 0.0800                | 0.0731              | 91.4          | 50.0-120         |               |
| Benzo(a)anthracene    | 0.0800                | 0.0712              | 89.0          | 45.0-120         |               |
| Benzo(a)pyrene        | 0.0800                | 0.0609              | 76.1          | 42.0-120         |               |
| Benzo(b)fluoranthene  | 0.0800                | 0.0675              | 84.4          | 42.0-121         |               |
| Benzo(g,h,i)perylene  | 0.0800                | 0.0718              | 89.8          | 45.0-125         |               |
| Benzo(k)fluoranthene  | 0.0800                | 0.0649              | 81.1          | 49.0-125         |               |
| Chrysene              | 0.0800                | 0.0718              | 89.8          | 49.0-122         |               |
| Dibenz(a,h)anthracene | 0.0800                | 0.0738              | 92.3          | 47.0-125         |               |
| Fluoranthene          | 0.0800                | 0.0781              | 97.6          | 49.0-129         |               |

Laboratory Control Sample (LCS)

(LCS) R3960367-1 08/14/23 09:40

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene               | 0.0800                | 0.0762              | 95.3          | 49.0-120         |               |
| Indeno(1,2,3-cd)pyrene | 0.0800                | 0.0764              | 95.5          | 46.0-125         |               |
| Naphthalene            | 0.0800                | 0.0756              | 94.5          | 50.0-120         |               |
| Phenanthrene           | 0.0800                | 0.0717              | 89.6          | 47.0-120         |               |
| Pyrene                 | 0.0800                | 0.0648              | 81.0          | 43.0-123         |               |
| 1-Methylnaphthalene    | 0.0800                | 0.0774              | 96.8          | 51.0-121         |               |
| 2-Methylnaphthalene    | 0.0800                | 0.0802              | 100           | 50.0-120         |               |
| 2-Chloronaphthalene    | 0.0800                | 0.0726              | 90.8          | 50.0-120         |               |
| (S) p-Terphenyl-d14    |                       |                     | 89.8          | 23.0-120         |               |
| (S) Nitrobenzene-d5    |                       |                     | 89.1          | 14.0-149         |               |
| (S) 2-Fluorobiphenyl   |                       |                     | 95.1          | 34.0-125         |               |

L1645453-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645453-01 08/14/23 13:49 • (MS) R3960367-3 08/14/23 14:07 • (MSD) R3960367-4 08/14/23 14:25

| Analyte                | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene             | 0.0760                | 0.0388                   | 0.238              | 0.126               | 262          | 114           | 1        | 10.0-145         | J5           | J3            | 61.5     | 30              |
| Acenaphthene           | 0.0760                | 0.0124                   | 0.143              | 0.0893              | 172          | 101           | 1        | 14.0-127         | J5           | J3            | 46.2     | 27              |
| Acenaphthylene         | 0.0760                | 0.0115                   | 0.102              | 0.0866              | 119          | 98.3          | 1        | 21.0-124         |              |               | 16.3     | 25              |
| Benzo(a)anthracene     | 0.0760                | 0.196                    | 0.551              | 0.325               | 467          | 169           | 1        | 10.0-139         | J5           | J3 J5         | 51.6     | 30              |
| Benzo(a)pyrene         | 0.0760                | 0.239                    | 0.562              | 0.375               | 425          | 178           | 1        | 10.0-141         | J5           | J3 J5         | 39.9     | 31              |
| Benzo(b)fluoranthene   | 0.0760                | 0.252                    | 0.544              | 0.363               | 384          | 145           | 1        | 10.0-140         | J5           | J3 J5         | 39.9     | 36              |
| Benzo(g,h,i)perylene   | 0.0760                | 0.179                    | 0.390              | 0.273               | 278          | 123           | 1        | 10.0-140         | J5           | J3            | 35.3     | 33              |
| Benzo(k)fluoranthene   | 0.0760                | 0.0862                   | 0.238              | 0.164               | 200          | 102           | 1        | 10.0-137         | J5           | J3            | 36.8     | 31              |
| Chrysene               | 0.0760                | 0.211                    | 0.563              | 0.310               | 463          | 130           | 1        | 10.0-145         | J5           | J3            | 58.0     | 30              |
| Dibenz(a,h)anthracene  | 0.0760                | 0.0339                   | 0.114              | 0.0910              | 105          | 74.7          | 1        | 10.0-132         |              |               | 22.4     | 31              |
| Fluoranthene           | 0.0760                | 0.302                    | 1.12               | 0.514               | 1080         | 277           | 1        | 10.0-153         | J5           | J3 J5         | 74.2     | 33              |
| Fluorene               | 0.0760                | 0.00957                  | 0.146              | 0.0897              | 180          | 105           | 1        | 11.0-130         | J5           | J3            | 47.8     | 29              |
| Indeno(1,2,3-cd)pyrene | 0.0760                | 0.186                    | 0.419              | 0.279               | 307          | 122           | 1        | 10.0-137         | J5           | J3            | 40.1     | 32              |
| Naphthalene            | 0.0760                | 0.0246                   | 0.136              | 0.112               | 147          | 114           | 1        | 10.0-135         | J5           |               | 19.4     | 27              |
| Phenanthrene           | 0.0760                | 0.138                    | 0.896              | 0.299               | 997          | 211           | 1        | 10.0-144         | J5           | J3 J5         | 99.9     | 31              |
| Pyrene                 | 0.0760                | 0.290                    | 1.03               | 0.463               | 974          | 226           | 1        | 10.0-148         | J5           | J3 J5         | 76.0     | 35              |
| 1-Methylnaphthalene    | 0.0760                | 0.0106                   | 0.108              | 0.0980              | 128          | 114           | 1        | 10.0-142         |              |               | 9.71     | 28              |
| 2-Methylnaphthalene    | 0.0760                | 0.0146                   | 0.113              | 0.107               | 129          | 121           | 1        | 10.0-137         |              |               | 5.45     | 28              |
| 2-Chloronaphthalene    | 0.0760                | U                        | 0.0612             | 0.0601              | 80.5         | 78.7          | 1        | 29.0-120         |              |               | 1.81     | 24              |
| (S) p-Terphenyl-d14    |                       |                          |                    |                     | 82.3         | 81.2          |          | 23.0-120         |              |               |          |                 |
| (S) Nitrobenzene-d5    |                       |                          |                    |                     | 81.4         | 82.3          |          | 14.0-149         |              |               |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                          |                    |                     | 81.4         | 80.4          |          | 34.0-125         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC4 • File ID: 0811\_34

08/12/23 00:06

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0811_34 | 2819501                         | 1140538                         |
| Upper Limit                    |         | 5639002                         | 2281076                         |
| Lower Limit                    |         | 1409751                         | 570269                          |
| LCS R3961273-1 WG2112616 1x    | 0811_35 | 2696557                         | 1096914                         |
| BLANK R3961273-2 WG2112616 25x | 0811_39 | 3121577                         | 1328543                         |
| L1645178-04 WG2112616 25x      | 0811_40 | 3251408                         | 1368716                         |
| L1645178-05 WG2112616 25x      | 0811_41 | 2961777                         | 1274053                         |
| L1645178-06 WG2112616 25x      | 0811_42 | 2904084                         | 1239320                         |
| L1645178-07 WG2112616 27.8x    | 0811_43 | 2825650                         | 1210637                         |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCGC4 • File ID: 0812\_02

08/12/23 12:59

| Sample ID                      | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|----------|---------------------------------|---------------------------------|
| Standard                       | 0812_02  | 2746293                         | 1233205                         |
| Upper Limit                    |          | 5492586                         | 2466410                         |
| Lower Limit                    |          | 1373147                         | 616603                          |
| LCS R3960958-3 WG2112771 1x    | 0812_06A | 3476532                         | 1476413                         |
| BLANK R3960958-4 WG2112771 25x | 0812_08A | 2942515                         | 1341708                         |
| L1645178-02 WG2112771 500x     | 0812_19  | 3381594                         | 1459107                         |

## Instrument: VOCGC4 • File ID: 0816\_03

08/16/23 09:29

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0816_03 | 3049466                         | 1372359                         |
| Upper Limit                    |         | 6098932                         | 2744718                         |
| Lower Limit                    |         | 1524733                         | 686180                          |
| LCS R3961461-1 WG2115088 1x    | 0816_04 | 3479037                         | 1544307                         |
| BLANK R3961461-2 WG2115088 25x | 0816_06 | 2991168                         | 1376123                         |
| L1645178-08 WG2115088 500x     | 0816_08 | 3542173                         | 1429416                         |
| L1645178-01 WG2115088 5000x    | 0816_09 | 2913943                         | 1216486                         |

# INTERNAL STANDARD SUMMARY

## Instrument: VOEGC4 • File ID: 0816\_03

08/16/23 09:29

| Sample ID                   | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-----------------------------|---------|---------------------------------|---------------------------------|
| L1645178-09 WG2115088 1030x | 0816_14 | 3243724                         | 1423229                         |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

## Instrument: VOEGC17 • File ID: 0811\_31

08/11/23 22:12

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0811_31 | 286314100                       | 286314100                       |
| Upper Limit                    |         | 572628200                       | 572628200                       |
| Lower Limit                    |         | 143157100                       | 143157100                       |
| LCS R3960312-1 WG2112530 25x   | 0811_32 | 266675900                       | 266675900                       |
| BLANK R3960312-2 WG2112530 25x | 0811_35 | 264092600                       | 264092600                       |
| L1645178-03 WG2112530 25x      | 0811_36 | 253521800                       | 253521800                       |
| MS R3960312-3 WG2112530 25x    | 0811_56 | 280402300                       | 280402300                       |
| MSD R3960312-4 WG2112530 25x   | 0811_57 | 303616200                       | 303616200                       |

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS40 • File ID: 0814\_02-1

08/14/23 07:12

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0814_02-1   | 897261                         | 404747.20                         | 334223.60                               |
| Upper Limit                   |             | 1794522                        | 809494                            | 668447                                  |
| Lower Limit                   |             | 448631                         | 202374                            | 167112                                  |
| LCS R3960751-1 WG2113658 1x   | 0814_02LCSB | 897261                         | 404747.20                         | 334223.60                               |
| LCSD R3960751-2 WG2113658 1x  | 0814_03B    | 889250.40                      | 406314.30                         | 347486.50                               |
| BLANK R3960751-3 WG2113658 1x | 0814_07B    | 860096.30                      | 377372.10                         | 294848.70                               |
| L1645178-01 WG2113658 200x    | 0814_19     | 852262.90                      | 383920.20                         | 329635.70                               |
| L1645178-08 WG2113658 20x     | 0814_20     | 862090.50                      | 405481.20                         | 348212.20                               |
| L1645178-09 WG2113658 10.1x   | 0814_21     | 949210.90                      | 419748.80                         | 358455.60                               |

## Instrument: VOCMS59 • File ID: 0812\_02-1

08/12/23 09:28

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0812_02-1  | 265080.90                      | 111378.20                         | 106424.50                               |
| Upper Limit                   |            | 530162                         | 222756                            | 212849                                  |
| Lower Limit                   |            | 132540                         | 55689                             | 53212                                   |
| LCS R3960196-1 WG2112779 1x   | 0812_02LCS | 265080.90                      | 111378.20                         | 106424.50                               |
| LCSD R3960196-2 WG2112779 1x  | 0812_03    | 279599.50                      | 118906.90                         | 104864.30                               |
| BLANK R3960196-3 WG2112779 1x | 0812_07    | 272997.90                      | 108878.20                         | 96058.40                                |
| L1645178-03 WG2112779 1x      | 0812_12    | 277029.50                      | 108811.90                         | 97852.70                                |
| L1645178-04 WG2112779 1x      | 0812_13    | 276035.60                      | 112166.60                         | 98948.80                                |
| L1645178-05 WG2112779 1x      | 0812_14    | 271540.80                      | 106112                            | 95264.60                                |
| L1645178-06 WG2112779 1x      | 0812_15    | 278946                         | 106392.90                         | 98619.30                                |
| L1645178-07 WG2112779 1.11x   | 0812_16    | 277269.40                      | 109510.10                         | 97873                                   |
| L1645178-08 WG2112779 1x      | 0812_17    | 359985.90                      | 189270.80                         | 101924.20                               |
| L1645178-09 WG2112779 1.03x   | 0812_18    | 318992.20                      | 122333.20                         | 105399.60                               |
| L1645178-01 WG2112779 20x     | 0812_19    | 351159.20                      | 151034.10                         | 119595.80                               |
| L1645178-02 WG2112779 40x     | 0812_20    | 294616                         | 122084.40                         | 118242.60                               |



# INTERNAL STANDARD SUMMARY

Instrument: VOCMS59 • File ID: 0816\_27-1

08/16/23 11:31

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0816_27-1   | 262458                         | 111096.20                         | 106933.50                               |
| Upper Limit                   |             | 524916                         | 222192                            | 213867                                  |
| Lower Limit                   |             | 131229                         | 55548                             | 53467                                   |
| LCS R3961532-1 WG2114341 1x   | 0816_27LCSB | 262458                         | 111096.20                         | 106933.50                               |
| LCSD R3961532-2 WG2114341 1x  | 0816_28B    | 264054                         | 111062.90                         | 108285.40                               |
| BLANK R3961532-3 WG2114341 1x | 0816_32B    | 275788.40                      | 113180.20                         | 97872.30                                |
| L1645178-08 WG2114341 200x    | 0816_34     | 258885.50                      | 111032.90                         | 104938.50                               |

Instrument: VOCMS59 • File ID: 0816\_27-2

08/16/23 11:31

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0816_27-2   | 262458                         | 111096.20                         | 106933.50                               |
| Upper Limit                   |             | 524916                         | 222192                            | 213867                                  |
| Lower Limit                   |             | 131229                         | 55548                             | 53467                                   |
| LCS R3961532-1 WG2114341 1x   | 0816_27LCSB | 262458                         | 111096.20                         | 106933.50                               |
| LCSD R3961532-2 WG2114341 1x  | 0816_28B    | 264054                         | 111062.90                         | 108285.40                               |
| BLANK R3961532-3 WG2114341 1x | 0816_32B    | 275788.40                      | 113180.20                         | 97872.30                                |
| L1645178-08 WG2114341 200x    | 0816_34     | 258885.50                      | 111032.90                         | 104938.50                               |

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

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS32 • File ID: 0812\_58-1

08/12/23 21:02

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0812_58-1  | 240006                         | 97013                             | 89379                                   |
| Upper Limit                   |            | 480012                         | 194026                            | 178758                                  |
| Lower Limit                   |            | 120003                         | 48507                             | 44690                                   |
| LCS R3961067-1 WG2112916 1x   | 0812_58LCS | 240006                         | 97013                             | 89379                                   |
| LCSD R3961067-2 WG2112916 1x  | 0812_59    | 255904                         | 110501                            | 102899                                  |
| BLANK R3961067-3 WG2112916 1x | 0812_61    | 230737                         | 95568                             | 94801                                   |
| L1645178-10 WG2112916 1x      | 0812_62    | 250554                         | 102232                            | 91033                                   |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

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

Instrument: BNAMS18 • File ID: 0814\_03

08/14/23 09:22

| Sample ID                     | File ID | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|---------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0814_03 | 46429                      | 24925                        | 42266                        | 36629                    | 36626                    |
| Upper Limit                   |         | 92858                      | 49850                        | 84532                        | 73258                    | 73252                    |
| Lower Limit                   |         | 23215                      | 12463                        | 21133                        | 18315                    | 18313                    |
| LCS R3960367-1 WG2112962 1x   | 0814_04 | 49569                      | 26033                        | 45505                        | 39261                    | 37719                    |
| BLANK R3960367-2 WG2112962 1x | 0814_05 | 53316                      | 28061                        | 49035                        | 40634                    | 38906                    |
| L1645178-02 WG2112962 1x      | 0814_07 | 49034                      | 27130                        | 50322                        | 40368                    | 37462                    |
| MS R3960367-3 WG2112962 1x    | 0814_19 | 50706                      | 27593                        | 48024                        | 40394                    | 43807                    |
| MSD R3960367-4 WG2112962 1x   | 0814_20 | 52937                      | 29116                        | 51060                        | 45115                    | 48917                    |
| L1645178-02 WG2112962 20x     | 0814_32 | 51057                      | 28818                        | 52219                        | 46596                    | 46400                    |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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  |
|-----------|--|
| B         | The same analyte is found in the associated blank.   |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                    |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits.                 |
| J3        | The associated batch QC was outside the established quality control range for precision.               |
| J4        | The associated batch QC was outside the established quality control range for accuracy.                |
| J5        | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**145751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Samay**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Janner**

**Rush?** (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N  Y

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed  
**\* 24hr TAT for A5-FL-12\***

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs |
|-----------|-----------|----------|-------|------|------|--------------|
|-----------|-----------|----------|-------|------|------|--------------|

| Analysis / Container / Preservative |                            |                              |                       |                            |                            |                                |                             |  |  |  |
|-------------------------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|--|--|--|
| EPH WA 4ozAmb-NoPres                | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |  |  |  |

Chain of Custody Page 1 of 1



**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/hubs/pas-standard-terms.pdf>

SDG # **L1645178**  
Table # **5000**  
Acctnum: **STANTECBWA**  
Template: **T234672**  
Prelogin: **P1013674**  
PM: **546 - Jared Starkey**  
PB: **7/28/23 CAM**  
Shipped Via: **FedEX Standard**

Paul M. Janner

|                        |              |               |               |                   |                 |              |   |   |   |   |   |   |   |   |   |   |  |
|------------------------|--------------|---------------|---------------|-------------------|-----------------|--------------|---|---|---|---|---|---|---|---|---|---|--|
| <del>UST1-Dsp1-7</del> | <del>G</del> | <del>SS</del> | <del>7</del>  | <del>8/7/23</del> | <del>1300</del> | <del>5</del> |   |   |   |   |   |   |   |   |   |   |  |
| <del>UST1-Dsp2-7</del> | <del>G</del> | <del>SS</del> | <del>7</del>  | <del>8/7/23</del> | <del>1310</del> | <del>5</del> | X | X | X | X | X | X | X | X | X | X |  |
| <del>A5-FL-12</del>    | <del>G</del> | <del>SS</del> | <del>12</del> | <del>8/8/23</del> | <del>0940</del> | <del>3</del> |   |   |   |   |   |   |   |   |   |   |  |
| <del>A4-FL-12</del>    | <del>G</del> | <del>SS</del> | <del>12</del> | <del>8/8/23</del> | <del>0940</del> | <del>3</del> |   |   |   |   |   |   |   |   |   |   |  |
| UST3-SW3-3             | G            | SS            | 3             | 8/8/23            | 1330            | 45           |   |   |   |   |   |   |   |   |   |   |  |
| UST3-SW2-3             | G            | SS            | 3             | 8/8/23            | 1340            | 4            |   |   |   |   |   |   |   |   |   |   |  |
| UST3-SW4-4             | G            | SS            | 4             | 8/8/23            | 1420            | 4            |   |   |   |   |   |   |   |   |   |   |  |
| UST3-SW1-5             | G            | SS            | 5             | 8/8/23            | 1430            | 4            |   |   |   |   |   |   |   |   |   |   |  |
| UST2-Piping-3          | G            | SS            | 3             | 8/8/23            | 0430            | 5            |   |   |   |   |   |   |   |   |   |   |  |
| Dup-01                 | G            | SS            | -             | 8/8/23            | -               | 5            |   |   |   |   |   |   |   |   |   |   |  |
| TB-02-01               | -            | W-SS          | -             | 8/8/23            | -               | 2            |   |   |   |   |   |   |   |   |   |   |  |

Remarks: **\* 24hr TAT for A5-FL-12 only please \***

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

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

| Sample Receipt Checklist      |  |
|-------------------------------|--|
| COC Seal Present/Intact:      | <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |
| Correct bottles used:         | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |
| If Applicable                 |  |
| VOA Zero Headspace:           | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N                             |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N                             |

Samples returned via:  UPS  FedEx  Courier  
Tracking # **6841 8344 9868**

Relinquished by: (Signature)  
**Paul M. Janner**

Date: **8/8/23**  
Time: **1545**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes /  No  
**2**  HC /  MeOH  
TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received by: (Signature)

Temp: \_\_\_\_\_ °C  
Bottles Received: **GBAS 2.5+0=2.5 31**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received for lab by: (Signature)  
**Janner**

Date: **8/11/23**  
Time: **0835**

Hold: \_\_\_\_\_  
Condition:  OK  NCF



# ANALYTICAL REPORT

September 11, 2023

Revised Report

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

## Stantec- Bellevue, WA

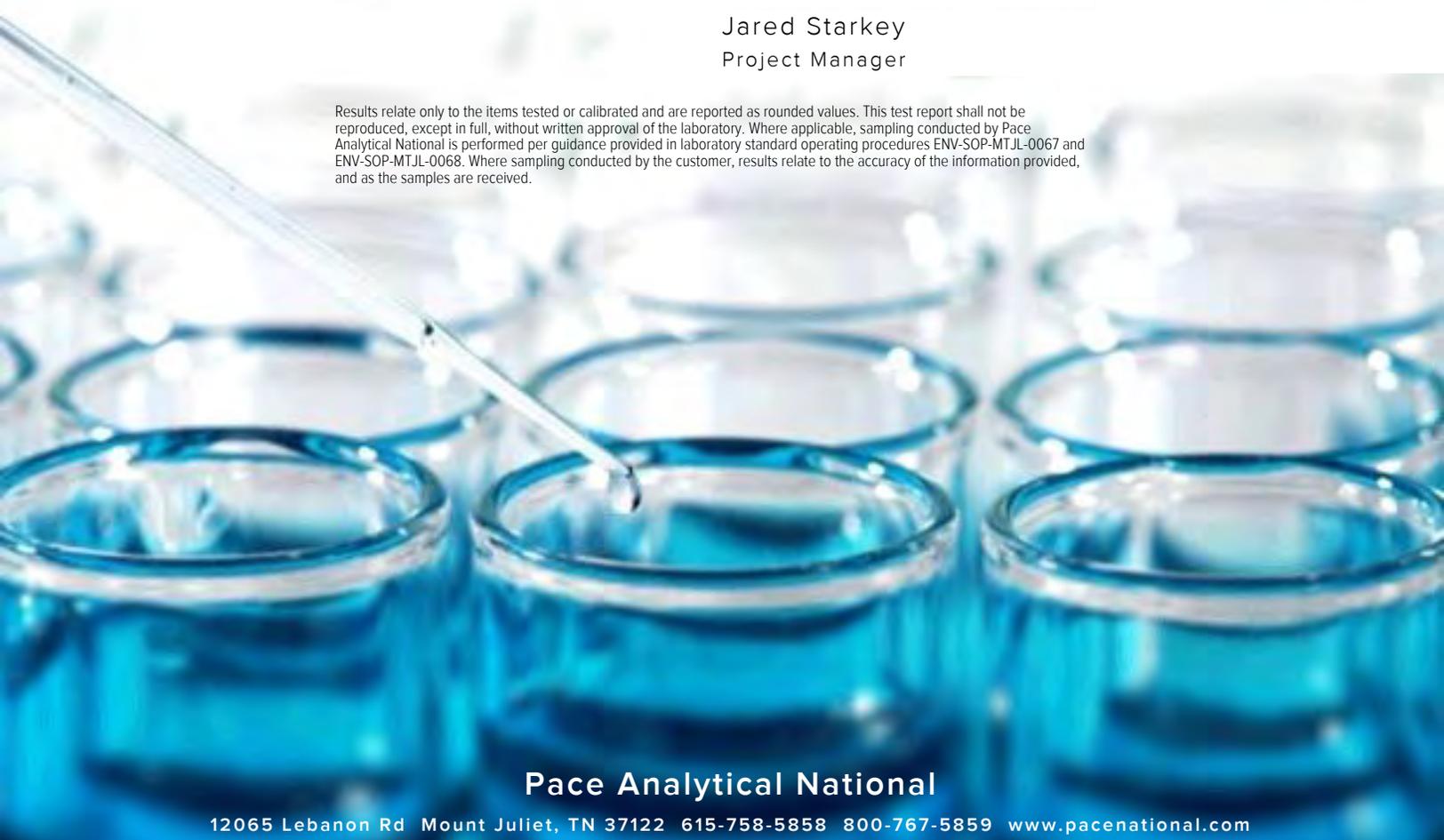
Sample Delivery Group: L1645564  
 Samples Received: 08/12/2023  
 Project Number: 185751446  
 Description: Hungry Whale Test Pitting

Report To: Stantec  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Entire Report Reviewed By:

Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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# SAMPLE SUMMARY

## UST3-FL-8 L1645564-01 Solid

Collected by Paul Janney      Collected date/time 08/09/23 09:00      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:18     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2116141 | 1000     | 08/09/23 09:00        | 08/18/23 02:51     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 8        | 08/09/23 09:00        | 08/14/23 14:16     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2115813 | 400      | 08/09/23 09:00        | 08/17/23 12:25     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 5        | 08/15/23 21:07        | 08/16/23 14:44     | JSS     | Mt. Juliet, TN |



## UST2-SW4-8 L1645564-02 Solid

Collected by Paul Janney      Collected date/time 08/09/23 09:15      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:21     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2116141 | 2500     | 08/09/23 09:15        | 08/18/23 04:24     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 20       | 08/09/23 09:15        | 08/14/23 14:35     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2115813 | 400      | 08/09/23 09:15        | 08/17/23 12:45     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 5        | 08/15/23 21:07        | 08/16/23 14:57     | JSS     | Mt. Juliet, TN |

## UST2-SW1-8 L1645564-03 Solid

Collected by Paul Janney      Collected date/time 08/09/23 09:20      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:23     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2116141 | 5000     | 08/09/23 09:20        | 08/18/23 05:56     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 40       | 08/09/23 09:20        | 08/14/23 14:54     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2115813 | 2000     | 08/09/23 09:20        | 08/17/23 13:05     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 10       | 08/15/23 21:07        | 08/16/23 15:23     | JSS     | Mt. Juliet, TN |

## SP-SI-3 L1645564-04 Solid

Collected by Paul Janney      Collected date/time 08/09/23 12:10      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116141 | 263      | 08/09/23 12:10        | 08/18/23 02:28     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 1.04     | 08/09/23 12:10        | 08/14/23 11:25     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 41.6     | 08/09/23 12:10        | 08/17/23 13:25     | JHH     | Mt. Juliet, TN |

## SP-SI-4 L1645564-05 Solid

Collected by Paul Janney      Collected date/time 08/10/23 07:35      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2113641 | 26.5     | 08/10/23 07:35        | 08/14/23 15:11     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 1.03     | 08/10/23 07:35        | 08/14/23 11:44     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## UST2-SW2-7 L1645564-06 Solid

Collected by Paul Janney      Collected date/time 08/10/23 10:40      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:26     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2113641 | 25       | 08/10/23 10:40        | 08/14/23 15:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 1        | 08/10/23 10:40        | 08/14/23 12:03     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 1        | 08/15/23 21:07        | 08/16/23 09:39     | JAS     | Mt. Juliet, TN |

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

## UST2-SW3-7 L1645564-07 Solid

Collected by Paul Janney      Collected date/time 08/10/23 10:45      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:29     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2116141 | 2500     | 08/10/23 10:45        | 08/18/23 04:47     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 20       | 08/10/23 10:45        | 08/14/23 15:13     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2115813 | 2000     | 08/10/23 10:45        | 08/17/23 13:44     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 10       | 08/15/23 21:07        | 08/16/23 15:37     | JSS     | Mt. Juliet, TN |

## UST2-FL-11 L1645564-08 Solid

Collected by Paul Janney      Collected date/time 08/10/23 13:30      Received date/time 08/12/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114521 | 1        | 08/16/23 04:47        | 08/16/23 13:31     | ZSA     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2116141 | 2500     | 08/10/23 13:30        | 08/18/23 05:10     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2113597 | 20       | 08/10/23 13:30        | 08/14/23 15:32     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2115813 | 2000     | 08/10/23 13:30        | 08/17/23 14:04     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114153 | 5        | 08/15/23 21:07        | 08/16/23 15:10     | JSS     | Mt. Juliet, TN |

## A1-SW1-4 L1645564-09 Solid

Collected by Paul Janney      Collected date/time 08/10/23 14:55      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2113641 | 26.3     | 08/10/23 14:55        | 08/14/23 15:57     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 1.01     | 08/10/23 14:55        | 08/14/23 12:22     | DWR     | Mt. Juliet, TN |

## A3-SW1-6 L1645564-10 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:00      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113834 | 1        | 08/14/23 15:40        | 08/14/23 15:46     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2113641 | 26.3     | 08/10/23 15:00        | 08/14/23 16:19     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 1.08     | 08/10/23 15:00        | 08/14/23 12:41     | DWR     | Mt. Juliet, TN |

## A4-SW1-8 L1645564-11 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:05      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116141 | 1000     | 08/10/23 15:05        | 08/18/23 03:15     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 8        | 08/10/23 15:05        | 08/14/23 15:51     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## A4-SW1-8 L1645564-11 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:05      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 200      | 08/10/23 15:05        | 08/17/23 16:22     | JHH     | Mt. Juliet, TN |

1 Cp

2 Tc

## C5-SW4-8 L1645564-12 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:10      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116141 | 2000     | 08/10/23 15:10        | 08/18/23 03:38     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 20       | 08/10/23 15:10        | 08/14/23 16:10     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 2000     | 08/10/23 15:10        | 08/17/23 14:43     | JHH     | Mt. Juliet, TN |

3 Ss

4 Cn

5 Sr

6 Qc

## E5-SW4-8 L1645564-13 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:15      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116141 | 2500     | 08/10/23 15:15        | 08/18/23 05:33     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 2000     | 08/10/23 15:15        | 08/17/23 15:03     | JHH     | Mt. Juliet, TN |

7 Is

8 Gl

9 Al

10 Sc

## E5-SW4-8-ADD L1645564-14 Solid

Collected by Paul Janney      Collected date/time 08/10/23 15:20      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116141 | 2000     | 08/10/23 15:20        | 08/18/23 04:01     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 8        | 08/10/23 15:20        | 08/14/23 16:48     | DWR     | Mt. Juliet, TN |

## SP-SI-5 L1645564-15 Solid

Collected by Paul Janney      Collected date/time 08/11/23 06:10      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115079 | 1130     | 08/11/23 06:10        | 08/16/23 18:36     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 8.24     | 08/11/23 06:10        | 08/14/23 17:07     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 412      | 08/11/23 06:10        | 08/17/23 15:22     | JHH     | Mt. Juliet, TN |

## SP-SI-6 L1645564-16 Solid

Collected by Paul Janney      Collected date/time 08/11/23 06:15      Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2113835 | 1        | 08/14/23 15:33        | 08/14/23 15:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115079 | 250      | 08/11/23 06:15        | 08/16/23 18:59     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2113597 | 1.08     | 08/11/23 06:15        | 08/14/23 13:00     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115813 | 86.4     | 08/11/23 06:15        | 08/17/23 15:42     | JHH     | Mt. Juliet, TN |

# SAMPLE SUMMARY

TB-01 L1645564-17 GW

Collected by Paul Janney  
Collected date/time 08/09/23 00:00  
Received date/time 08/12/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114625 | 1        | 08/16/23 01:02        | 08/16/23 01:02     | DYW     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey  
Project Manager

## Report Revision History

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Level II Report - Version 1: 08/18/23 10:52

## Project Comments

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ID Corrections

## Volatile Organic Compounds (GC) by Method NWTPHGX

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The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID |
|-----------|-------------------------------|---------------|
| WG2113641 | Gasoline Range Organics-NWTPH | L1645564-09   |

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

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Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte    | Lab Sample ID |
|-----------|------------|---------------|
| WG2113597 | Toluene-d8 | L1645564-16   |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.8   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 17.2         |           | 0.260     | 0.626     | 1        | 08/16/2023 13:18 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2880         |           | 52.1      | 154       | 1000     | 08/18/2023 02:51 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.2         |           |           | 77.0-120  |          | 08/18/2023 02:51 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.236        |           | 0.00576   | 0.0123    | 8        | 08/14/2023 14:16 | <a href="#">WG2113597</a> |
| Toluene                   | 0.102        |           | 0.0160    | 0.0617    | 8        | 08/14/2023 14:16 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 31.1         |           | 0.455     | 1.54      | 400      | 08/17/2023 12:25 | <a href="#">WG2115813</a> |
| Total Xylenes             | 256          |           | 0.543     | 4.01      | 400      | 08/17/2023 12:25 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 87.4         |           |           | 75.0-131  |          | 08/14/2023 14:16 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/17/2023 12:25 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 92.9         |           |           | 67.0-138  |          | 08/14/2023 14:16 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 96.0         |           |           | 67.0-138  |          | 08/17/2023 12:25 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 08/14/2023 14:16 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 98.3         |           |           | 70.0-130  |          | 08/17/2023 12:25 | <a href="#">WG2115813</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 233          |           | 8.33      | 25.0      | 5        | 08/16/2023 14:44 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | U            |           | 20.8      | 62.6      | 5        | 08/16/2023 14:44 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 54.6         |           |           | 18.0-148  |          | 08/16/2023 14:44 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-01 WG2114153: Sample resembles laboratory standard for Mineral Spirits



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 92.2   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 4.65         |           | 0.226     | 0.542     | 1        | 08/16/2023 13:21 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 7600         |           | 99.1      | 292       | 2500     | 08/18/2023 04:24 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.5         |           |           | 77.0-120  |          | 08/18/2023 04:24 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 14.4         |           | 0.0110    | 0.0235    | 20       | 08/14/2023 14:35 | <a href="#">WG2113597</a> |
| Toluene                   | 109          |           | 0.610     | 2.35      | 400      | 08/17/2023 12:45 | <a href="#">WG2115813</a> |
| Ethylbenzene              | 101          |           | 0.346     | 1.17      | 400      | 08/17/2023 12:45 | <a href="#">WG2115813</a> |
| Total Xylenes             | 1010         |           | 0.413     | 3.05      | 400      | 08/17/2023 12:45 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 88.7         |           |           | 75.0-131  |          | 08/14/2023 14:35 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/17/2023 12:45 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 91.4         |           |           | 67.0-138  |          | 08/14/2023 14:35 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 93.8         |           |           | 67.0-138  |          | 08/17/2023 12:45 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 117          |           |           | 70.0-130  |          | 08/14/2023 14:35 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/17/2023 12:45 | <a href="#">WG2115813</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 625          |           | 7.21      | 21.7      | 5        | 08/16/2023 14:57 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | 18.7         | J         | 18.0      | 54.2      | 5        | 08/16/2023 14:57 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 57.7         |           |           | 18.0-148  |          | 08/16/2023 14:57 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-02 WG2114153: Sample resembles laboratory standard for Mineral Spirits



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.6   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 6.32         |           | 0.258     | 0.620     | 1        | 08/16/2023 13:23 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 15900        |           | 262       | 774       | 5000     | 08/18/2023 05:56 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8         |           |           | 77.0-120  |          | 08/18/2023 05:56 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 26.5         |           | 0.0290    | 0.0620    | 40       | 08/14/2023 14:54 | <a href="#">WG2113597</a> |
| Toluene                   | 107          |           | 0.0806    | 0.310     | 40       | 08/14/2023 14:54 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 271          |           | 2.28      | 7.75      | 2000     | 08/17/2023 13:05 | <a href="#">WG2115813</a> |
| Total Xylenes             | 2510         |           | 2.73      | 20.2      | 2000     | 08/17/2023 13:05 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 96.5         |           |           | 75.0-131  |          | 08/14/2023 14:54 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 99.8         |           |           | 75.0-131  |          | 08/17/2023 13:05 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 94.0         |           |           | 67.0-138  |          | 08/14/2023 14:54 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 94.1         |           |           | 67.0-138  |          | 08/17/2023 13:05 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 109          |           |           | 70.0-130  |          | 08/14/2023 14:54 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 08/17/2023 13:05 | <a href="#">WG2115813</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 1630         |           | 16.5      | 49.6      | 10       | 08/16/2023 15:23 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | U            |           | 41.3      | 124       | 10       | 08/16/2023 15:23 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 57.6         |           |           | 18.0-148  |          | 08/16/2023 15:23 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-03 WG2114153: Sample resembles laboratory standard for Mineral Spirits



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 92.0   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 648          |           | 10.4      | 30.7      | 263      | 08/18/2023 02:28 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 84.0         |           |           | 77.0-120  |          | 08/18/2023 02:28 | <a href="#">WG2116141</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0392       |           | 0.000568  | 0.00122   | 1.04     | 08/14/2023 11:25 | <a href="#">WG2113597</a> |
| Toluene                   | 1.64         |           | 0.00158   | 0.00608   | 1.04     | 08/14/2023 11:25 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 5.09         |           | 0.0359    | 0.122     | 41.6     | 08/17/2023 13:25 | <a href="#">WG2115813</a> |
| Total Xylenes             | 27.5         |           | 0.0428    | 0.316     | 41.6     | 08/17/2023 13:25 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 97.4         |           |           | 75.0-131  |          | 08/14/2023 11:25 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/17/2023 13:25 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 96.6         |           |           | 67.0-138  |          | 08/14/2023 11:25 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 94.1         |           |           | 67.0-138  |          | 08/17/2023 13:25 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           | 70.0-130  |          | 08/14/2023 11:25 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/17/2023 13:25 | <a href="#">WG2115813</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 92.5   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 110          |           | 1.04      | 3.07      | 26.5     | 08/14/2023 15:11 | <a href="#">WG2113641</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.7         |           |           | 77.0-120  |          | 08/14/2023 15:11 | <a href="#">WG2113641</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0570       |           | 0.000558  | 0.00120   | 1.03     | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| Toluene                   | 0.182        |           | 0.00156   | 0.00598   | 1.03     | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 0.240        |           | 0.000881  | 0.00300   | 1.03     | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| Total Xylenes             | 1.87         |           | 0.00105   | 0.00778   | 1.03     | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/14/2023 11:44 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 08/14/2023 11:44 | <a href="#">WG2113597</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 83.0   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 8.63         |           | 0.250     | 0.602     | 1        | 08/16/2023 13:26 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 126          |           | 1.24      | 3.65      | 25       | 08/14/2023 15:34 | <a href="#">WG2113641</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.8         |           |           | 77.0-120  |          | 08/14/2023 15:34 | <a href="#">WG2113641</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.268        |           | 0.000679  | 0.00145   | 1        | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| Toluene                   | 0.262        |           | 0.00189   | 0.00727   | 1        | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 1.56         |           | 0.00107   | 0.00363   | 1        | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| Total Xylenes             | 4.26         |           | 0.00128   | 0.00945   | 1        | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 98.5         |           |           | 67.0-138  |          | 08/14/2023 12:03 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 08/14/2023 12:03 | <a href="#">WG2113597</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 27.5         |           | 1.60      | 4.82      | 1        | 08/16/2023 09:39 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | 23.5         |           | 4.01      | 12.0      | 1        | 08/16/2023 09:39 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 38.5         |           |           | 18.0-148  |          | 08/16/2023 09:39 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-06 WG2114153: Sample resembles laboratory standard for Hydraulic Oil and Kerosene.



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 90.7   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 5.69         |           | 0.229     | 0.551     | 1        | 08/16/2023 13:29 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 9160         |           | 102       | 301       | 2500     | 08/18/2023 04:47 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.1         |           |           | 77.0-120  |          | 08/18/2023 04:47 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 7.50         |           | 0.0113    | 0.0241    | 20       | 08/14/2023 15:13 | <a href="#">WG2113597</a> |
| Toluene                   | 130          |           | 3.14      | 12.1      | 2000     | 08/17/2023 13:44 | <a href="#">WG2115813</a> |
| Ethylbenzene              | 134          |           | 1.77      | 6.04      | 2000     | 08/17/2023 13:44 | <a href="#">WG2115813</a> |
| Total Xylenes             | 1330         |           | 2.13      | 15.7      | 2000     | 08/17/2023 13:44 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 85.0         |           |           | 75.0-131  |          | 08/14/2023 15:13 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/17/2023 13:44 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 88.4         |           |           | 67.0-138  |          | 08/14/2023 15:13 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 98.1         |           |           | 67.0-138  |          | 08/17/2023 13:44 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 113          |           |           | 70.0-130  |          | 08/14/2023 15:13 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 98.9         |           |           | 70.0-130  |          | 08/17/2023 13:44 | <a href="#">WG2115813</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 1340         |           | 14.7      | 44.1      | 10       | 08/16/2023 15:37 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | U            |           | 36.7      | 110       | 10       | 08/16/2023 15:37 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 54.1         |           |           | 18.0-148  |          | 08/16/2023 15:37 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-07 WG2114153: Sample resembles laboratory standard for Mineral Spirits



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 82.9   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 4.67         |           | 0.251     | 0.603     | 1        | 08/16/2023 13:31 | <a href="#">WG2114521</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 7930         |           | 125       | 367       | 2500     | 08/18/2023 05:10 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.4         |           |           | 77.0-120  |          | 08/18/2023 05:10 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 17.4         |           | 0.0137    | 0.0293    | 20       | 08/14/2023 15:32 | <a href="#">WG2113597</a> |
| Toluene                   | 149          |           | 3.81      | 14.6      | 2000     | 08/17/2023 14:04 | <a href="#">WG2115813</a> |
| Ethylbenzene              | 154          |           | 2.15      | 7.32      | 2000     | 08/17/2023 14:04 | <a href="#">WG2115813</a> |
| Total Xylenes             | 1280         |           | 2.58      | 19.0      | 2000     | 08/17/2023 14:04 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 92.9         |           |           | 75.0-131  |          | 08/14/2023 15:32 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 08/17/2023 14:04 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 93.3         |           |           | 67.0-138  |          | 08/14/2023 15:32 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 98.2         |           |           | 67.0-138  |          | 08/17/2023 14:04 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 112          |           |           | 70.0-130  |          | 08/14/2023 15:32 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 100          |           |           | 70.0-130  |          | 08/17/2023 14:04 | <a href="#">WG2115813</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 923          |           | 8.02      | 24.1      | 5        | 08/16/2023 15:10 | <a href="#">WG2114153</a> |
| Residual Range Organics (RRO) | U            |           | 20.0      | 60.3      | 5        | 08/16/2023 15:10 | <a href="#">WG2114153</a> |
| (S) o-Terphenyl               | 59.3         |           |           | 18.0-148  |          | 08/16/2023 15:10 | <a href="#">WG2114153</a> |

Sample Narrative:

L1645564-08 WG2114153: Sample resembles laboratory standard for Mineral Spirits



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 91.2   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.99         | <a href="#">B J</a> | 1.06      | 3.13      | 26.3     | 08/14/2023 15:57 | <a href="#">WG2113641</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.5         |                     |           | 77.0-120  |          | 08/14/2023 15:57 | <a href="#">WG2113641</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00349      |           | 0.000563  | 0.00120   | 1.01     | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| Toluene                   | 0.0111       |           | 0.00156   | 0.00602   | 1.01     | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 0.0124       |           | 0.000887  | 0.00302   | 1.01     | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| Total Xylenes             | 0.0627       |           | 0.00106   | 0.00782   | 1.01     | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 08/14/2023 12:22 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 08/14/2023 12:22 | <a href="#">WG2113597</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 54.9   |           | 1        | 08/14/2023 15:46 | <a href="#">WG2113834</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 195          |           | 2.32      | 6.83      | 26.3     | 08/14/2023 16:19 | <a href="#">WG2113641</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.3         |           |           | 77.0-120  |          | 08/14/2023 16:19 | <a href="#">WG2113641</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0235       |           | 0.00130   | 0.00279   | 1.08     | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| Toluene                   | 0.199        |           | 0.00361   | 0.0139    | 1.08     | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 3.92         |           | 0.00205   | 0.00696   | 1.08     | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| Total Xylenes             | 13.3         |           | 0.00245   | 0.0181    | 1.08     | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 08/14/2023 12:41 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           | 70.0-130  |          | 08/14/2023 12:41 | <a href="#">WG2113597</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 86.3   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1360         |           | 45.2      | 133       | 1000     | 08/18/2023 03:15 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.2         |           |           | 77.0-120  |          | 08/18/2023 03:15 | <a href="#">WG2116141</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.166        |           | 0.00498   | 0.0106    | 8        | 08/14/2023 15:51 | <a href="#">WG2113597</a> |
| Toluene                   | 15.4         |           | 0.0138    | 0.0532    | 8        | 08/14/2023 15:51 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 28.3         |           | 0.196     | 0.665     | 200      | 08/17/2023 16:22 | <a href="#">WG2115813</a> |
| Total Xylenes             | 144          |           | 0.234     | 1.73      | 200      | 08/17/2023 16:22 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 99.7         |           |           | 75.0-131  |          | 08/14/2023 15:51 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 102          |           |           | 75.0-131  |          | 08/17/2023 16:22 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 99.1         |           |           | 67.0-138  |          | 08/14/2023 15:51 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 92.9         |           |           | 67.0-138  |          | 08/17/2023 16:22 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           | 70.0-130  |          | 08/14/2023 15:51 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 106          |           |           | 70.0-130  |          | 08/17/2023 16:22 | <a href="#">WG2115813</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 91.5   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 14800        |           | 80.9      | 239       | 2000     | 08/18/2023 03:38 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 109          |           |           | 77.0-120  |          | 08/18/2023 03:38 | <a href="#">WG2116141</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 28.5         |           | 0.0112    | 0.0240    | 20       | 08/14/2023 16:10 | <a href="#">WG2113597</a> |
| Toluene                   | 183          |           | 3.11      | 12.0      | 2000     | 08/17/2023 14:43 | <a href="#">WG2115813</a> |
| Ethylbenzene              | 123          |           | 1.76      | 5.99      | 2000     | 08/17/2023 14:43 | <a href="#">WG2115813</a> |
| Total Xylenes             | 1110         |           | 2.11      | 15.6      | 2000     | 08/17/2023 14:43 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 83.9         |           |           | 75.0-131  |          | 08/14/2023 16:10 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 08/17/2023 14:43 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 89.5         |           |           | 67.0-138  |          | 08/14/2023 16:10 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 97.8         |           |           | 67.0-138  |          | 08/17/2023 14:43 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 116          |           |           | 70.0-130  |          | 08/14/2023 16:10 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1         |           |           | 70.0-130  |          | 08/17/2023 14:43 | <a href="#">WG2115813</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.9   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 22800        |           | 129       | 380       | 2500     | 08/18/2023 05:33 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 108          |           |           | 77.0-120  |          | 08/18/2023 05:33 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 87.1         |           | 1.45      | 3.10      | 2000     | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| Toluene                   | 850          |           | 4.03      | 15.5      | 2000     | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| Ethylbenzene              | 278          |           | 2.28      | 7.75      | 2000     | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| Total Xylenes             | 2080         |           | 2.73      | 20.2      | 2000     | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 102          |           |           | 75.0-131  |          | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 97.6         |           |           | 67.0-138  |          | 08/17/2023 15:03 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 08/17/2023 15:03 | <a href="#">WG2115813</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.3   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5480         |           | 105       | 309       | 2000     | 08/18/2023 04:01 | <a href="#">WG2116141</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.9         |           |           | 77.0-120  |          | 08/18/2023 04:01 | <a href="#">WG2116141</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.454        |           | 0.00570   | 0.0122    | 8        | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| Toluene                   | 0.706        |           | 0.0159    | 0.0610    | 8        | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 25.2         |           | 0.00899   | 0.0305    | 8        | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| Total Xylenes             | 31.7         |           | 0.0107    | 0.0793    | 8        | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 76.6         |           |           | 75.0-131  |          | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 84.0         |           |           | 67.0-138  |          | 08/14/2023 16:48 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 119          |           |           | 70.0-130  |          | 08/14/2023 16:48 | <a href="#">WG2113597</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 95.2   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4240         |           | 42.0      | 124       | 1130     | 08/16/2023 18:36 | <a href="#">WG2115079</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 88.2         |           |           | 77.0-120  |          | 08/16/2023 18:36 | <a href="#">WG2115079</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.447        |           | 0.00424   | 0.00907   | 8.24     | 08/14/2023 17:07 | <a href="#">WG2113597</a> |
| Toluene                   | 7.22         |           | 0.0118    | 0.0453    | 8.24     | 08/14/2023 17:07 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 44.6         |           | 0.335     | 1.13      | 412      | 08/17/2023 15:22 | <a href="#">WG2115813</a> |
| Total Xylenes             | 295          |           | 0.399     | 2.95      | 412      | 08/17/2023 15:22 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 87.1         |           |           | 75.0-131  |          | 08/14/2023 17:07 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 08/17/2023 15:22 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 92.6         |           |           | 67.0-138  |          | 08/14/2023 17:07 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 95.2         |           |           | 67.0-138  |          | 08/17/2023 15:22 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           | 70.0-130  |          | 08/14/2023 17:07 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/17/2023 15:22 | <a href="#">WG2115813</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 82.0   |           | 1        | 08/14/2023 15:39 | <a href="#">WG2113835</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 961          |           | 12.2      | 36.1      | 250      | 08/16/2023 18:59 | <a href="#">WG2115079</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 88.1         |           |           | 77.0-120  |          | 08/16/2023 18:59 | <a href="#">WG2115079</a> |

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

| Analyte                   | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|--------------------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0681       |                    | 0.000718  | 0.00154   | 1.08     | 08/14/2023 13:00 | <a href="#">WG2113597</a> |
| Toluene                   | 2.92         |                    | 0.00199   | 0.00769   | 1.08     | 08/14/2023 13:00 | <a href="#">WG2113597</a> |
| Ethylbenzene              | 10.9         |                    | 0.0907    | 0.308     | 86.4     | 08/17/2023 15:42 | <a href="#">WG2115813</a> |
| Total Xylenes             | 127          |                    | 0.108     | 0.800     | 86.4     | 08/17/2023 15:42 | <a href="#">WG2115813</a> |
| (S) Toluene-d8            | 72.0         | <a href="#">J2</a> |           | 75.0-131  |          | 08/14/2023 13:00 | <a href="#">WG2113597</a> |
| (S) Toluene-d8            | 103          |                    |           | 75.0-131  |          | 08/17/2023 15:42 | <a href="#">WG2115813</a> |
| (S) 4-Bromofluorobenzene  | 79.6         |                    |           | 67.0-138  |          | 08/14/2023 13:00 | <a href="#">WG2113597</a> |
| (S) 4-Bromofluorobenzene  | 95.1         |                    |           | 67.0-138  |          | 08/17/2023 15:42 | <a href="#">WG2115813</a> |
| (S) 1,2-Dichloroethane-d4 | 97.6         |                    |           | 70.0-130  |          | 08/14/2023 13:00 | <a href="#">WG2113597</a> |
| (S) 1,2-Dichloroethane-d4 | 98.2         |                    |           | 70.0-130  |          | 08/17/2023 15:42 | <a href="#">WG2115813</a> |

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

| Analyte                          | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|----------------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                                  | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                          | U      |           | 0.0941 | 1.00     | 1        | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| Toluene                          | U      |           | 0.278  | 1.00     | 1        | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| Ethylbenzene                     | U      |           | 0.137  | 1.00     | 1        | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| Total Xylenes                    | U      |           | 0.174  | 3.00     | 1        | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| <i>(S) Toluene-d8</i>            | 103    |           |        | 80.0-120 |          | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| <i>(S) 4-Bromofluorobenzene</i>  | 95.7   |           |        | 77.0-126 |          | 08/16/2023 01:02 | <a href="#">WG2114625</a> |
| <i>(S) 1,2-Dichloroethane-d4</i> | 109    |           |        | 70.0-130 |          | 08/16/2023 01:02 | <a href="#">WG2114625</a> |

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

Method Blank (MB)

(MB) R3960691-1 08/14/23 15:46

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1645564-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1645564-05 08/14/23 15:46 • (DUP) R3960691-3 08/14/23 15:46

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 92.5            | 89.5       | 1        | 3.28    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3960691-2 08/14/23 15:46

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3960689-1 08/14/23 15:39

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00200   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1645564-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1645564-15 08/14/23 15:39 • (DUP) R3960689-3 08/14/23 15:39

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 95.2            | 93.9       | 1        | 1.34    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3960689-2 08/14/23 15:39

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961395-1 08/16/23 11:34

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3961395-2 08/16/23 11:36

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 98.8                | 98.8          | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1645831-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645831-03 08/16/23 11:39 • (MS) R3961395-5 08/16/23 11:46 • (MSD) R3961395-6 08/16/23 11:49

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 108                         | 9.38                           | 118                      | 115                       | 101          | 97.8          | 1        | 75.0-125         |              |               | 2.57     | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962065-2 08/14/23 10:51

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 1.04               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 92.0               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962065-1 08/14/23 10:05

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.84                | 106           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 95.6          | 77.0-120         |               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962034-1 08/16/23 14:07

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 1.39               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 91.9               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962034-2 08/16/23 14:55

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.00                | 90.9          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 98.8          | 77.0-120         |               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962385-2 08/18/23 02:05

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.69               | J            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.0               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962385-1 08/18/23 00:33

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.57                | 101           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 107           | 77.0-120         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961791-2 08/14/23 07:57

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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            | 105                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 99.1               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 104                |              |                 | 70.0-130        |

Laboratory Control Sample (LCS)

(LCS) R3961791-1 08/14/23 06:40

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.113               | 90.4          | 70.0-123         |               |
| Toluene                   | 0.125                 | 0.109               | 87.2          | 75.0-121         |               |
| Ethylbenzene              | 0.125                 | 0.107               | 85.6          | 74.0-126         |               |
| Total Xylenes             | 0.375                 | 0.330               | 88.0          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 103           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 99.2          | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 107           | 70.0-130         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962097-3 08/17/23 10:34

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 103       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 90.8      |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 97.8      |              |          | 70.0-130 |

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

(LCS) R3962097-1 08/17/23 08:56 • (LCSD) R3962097-2 08/17/23 09:15

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %    | %          |
| Benzene                          | 0.125        | 0.137      | 0.130       | 110      | 104       | 70.0-123    |               |                | 5.24 | 20         |
| Toluene                          | 0.125        | 0.133      | 0.128       | 106      | 102       | 75.0-121    |               |                | 3.83 | 20         |
| Ethylbenzene                     | 0.125        | 0.132      | 0.127       | 106      | 102       | 74.0-126    |               |                | 3.86 | 20         |
| Total Xylenes                    | 0.375        | 0.374      | 0.366       | 99.7     | 97.6      | 72.0-127    |               |                | 2.16 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 102      | 103       | 75.0-131    |               |                |      |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 93.9     | 95.5      | 67.0-138    |               |                |      |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 105      | 105       | 70.0-130    |               |                |      |            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3961334-3 08/15/23 21:37

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 104       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 91.8      |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 108       |              |        | 70.0-130 |

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

(LCS) R3961334-1 08/15/23 20:15 • (LCSD) R3961334-2 08/15/23 20:35

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 5.00         | 5.15       | 5.18        | 103      | 104       | 70.0-123    |               |                | 0.581 | 20         |
| Toluene                          | 5.00         | 4.97       | 4.83        | 99.4     | 96.6      | 79.0-120    |               |                | 2.86  | 20         |
| Ethylbenzene                     | 5.00         | 4.98       | 4.83        | 99.6     | 96.6      | 79.0-123    |               |                | 3.06  | 20         |
| Total Xylenes                    | 15.0         | 14.3       | 14.2        | 95.3     | 94.7      | 79.0-123    |               |                | 0.702 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 101      | 99.1      | 80.0-120    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 92.8     | 89.8      | 77.0-126    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 108      | 107       | 70.0-130    |               |                |       |            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3961515-1 08/16/23 08:46

| Analyte                       | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------------|--------------------|--------------|-----------------|-----------------|
| Diesel Range Organics (DRO)   | U                  |              | 1.33            | 4.00            |
| Residual Range Organics (RRO) | U                  |              | 3.33            | 10.0            |
| <i>(S) o-Terphenyl</i>        | 57.1               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3961515-2 08/16/23 08:59

| Analyte                     | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Diesel Range Organics (DRO) | 50.0                  | 30.1                | 60.2          | 50.0-150         |               |
| <i>(S) o-Terphenyl</i>      |                       |                     | 60.4          | 18.0-148         |               |

L1645473-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645473-01 08/16/23 11:00 • (MS) R3961515-3 08/16/23 11:13 • (MSD) R3961515-4 08/16/23 11:26

| Analyte                     | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Diesel Range Organics (DRO) | 55.5                        | 6.87                           | 41.0                     | 44.8                      | 61.6         | 68.7          | 1        | 50.0-150         |              |               | 8.67     | 20              |
| <i>(S) o-Terphenyl</i>      |                             |                                |                          |                           | 55.2         | 58.4          |          | 18.0-148         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS26 • File ID: 0815\_29-2

08/15/23 20:15

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0815_29-2   | 413875                         | 188137                            | 168792                                  |
| Upper Limit                   |             | 827750                         | 376274                            | 337584                                  |
| Lower Limit                   |             | 206938                         | 94069                             | 84396                                   |
| LCS R3961334-1 WG2114625 1x   | 0815_29LCSB | 413875                         | 188137                            | 168792                                  |
| LCSD R3961334-2 WG2114625 1x  | 0815_30B    | 415487                         | 192261                            | 166612                                  |
| BLANK R3961334-3 WG2114625 1x | 0815_33B    | 404516                         | 179191                            | 155110                                  |
| L1645564-17 WG2114625 1x      | 0815_42     | 401398                         | 178209                            | 158136                                  |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC4 • File ID: 0814\_03

08/14/23 08:09

| Sample ID                      | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|----------|---------------------------------|---------------------------------|
| Standard                       | 0814_03  | 3857200                         | 1337267                         |
| Upper Limit                    |          | 7714400                         | 2674534                         |
| Lower Limit                    |          | 1928600                         | 668634                          |
| LCS R3962065-1 WG2113641 1x    | 0814_05A | 3793670                         | 1299598                         |
| BLANK R3962065-2 WG2113641 25x | 0814_07A | 4158846                         | 1493090                         |
| L1645564-05 WG2113641 26.5x    | 0814_16  | 3682188                         | 1198227                         |
| L1645564-06 WG2113641 25x      | 0814_17  | 4104784                         | 1363074                         |
| L1645564-09 WG2113641 26.3x    | 0814_18  | 3167193                         | 1116166                         |
| L1645564-10 WG2113641 26.3x    | 0814_19  | 4179370                         | 1403085                         |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

## Instrument: VOCGC15 • File ID: 0816\_05

08/16/23 12:58

| Sample ID                      | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|----------|---------------------------------|---------------------------------|
| Standard                       | 0816_05  | 259764800                       | 112141                          |
| Upper Limit                    |          | 519529600                       | 224282                          |
| Lower Limit                    |          | 129882400                       | 56071                           |
| BLANK R3962034-1 WG2115079 25x | 0816_08B | 252962000                       | 50603                           |
| LCS R3962034-2 WG2115079 1x    | 0816_09B | 233603200                       | 107375                          |
| L1645564-15 WG2115079 1130x    | 0816_18  | 296547800                       | 167264                          |
| L1645564-16 WG2115079 250x     | 0816_19  | 303556900                       | 133709                          |

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

## Instrument: VOCGC15 • File ID: 0817\_31

08/18/23 00:09

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0817_31 | 271290900                       | 75522                           |
| Upper Limit                    |         | 542581800                       | 151044                          |
| Lower Limit                    |         | 135645500                       | 37761                           |
| LCS R3962385-1 WG2116141 1x    | 0817_32 | 232661300                       | 20071                           |
| BLANK R3962385-2 WG2116141 25x | 0817_36 | 230680600                       | 153816                          |
| L1645564-04 WG2116141 263x     | 0817_37 | 293139600                       | 86977                           |

# INTERNAL STANDARD SUMMARY

Instrument: VO CGC15 • File ID: 0817\_31

08/18/23 00:09

| Sample ID                   | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-----------------------------|---------|---------------------------------|---------------------------------|
| L1645564-01 WG2116141 1000x | 0817_38 | 264788900                       | 131439                          |
| L1645564-11 WG2116141 1000x | 0817_39 | 279708300                       | 42216                           |
| L1645564-12 WG2116141 2000x | 0817_40 | 246331800                       | 43069                           |
| L1645564-14 WG2116141 2000x | 0817_41 | 270186400                       | 73845                           |
| L1645564-02 WG2116141 2500x | 0817_42 | 286249700                       | 43956                           |
| L1645564-07 WG2116141 2500x | 0817_43 | 251256000                       | 123109                          |
| L1645564-08 WG2116141 2500x | 0817_44 | 257028200                       | 26762                           |
| L1645564-13 WG2116141 2500x | 0817_45 | 290288400                       | 35683                           |
| L1645564-03 WG2116141 5000x | 0817_46 | 262253400                       | 36425                           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

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

Instrument: VOCMS37 • File ID: 0817\_02-1

08/17/23 08:56

| Sample ID                     | File ID    | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
|                               |            | Response           | Response              | Response                    |
| Standard                      | 0817_02-1  | 308505.10          | 127850.40             | 11971.30                    |
| Upper Limit                   |            | 617010             | 255701                | 223943                      |
| Lower Limit                   |            | 154253             | 63925                 | 55986                       |
| LCS R3962097-1 WG2115813 1x   | 0817_02LCS | 308505.10          | 127850.40             | 11971.30                    |
| LCSD R3962097-2 WG2115813 1x  | 0817_03    | 307794.70          | 128568.70             | 112473                      |
| BLANK R3962097-3 WG2115813 1x | 0817_07    | 324386.10          | 136269.50             | 107288.60                   |
| L1645564-01 WG2115813 400x    | 0817_08    | 329844.40          | 137982.60             | 120304.50                   |
| L1645564-02 WG2115813 400x    | 0817_09    | 323998.70          | 138915.60             | 119450.40                   |
| L1645564-03 WG2115813 2000x   | 0817_10    | 307807.30          | 133861.50             | 114636                      |
| L1645564-04 WG2115813 41.6x   | 0817_11    | 313285.10          | 134494.60             | 115687.60                   |
| L1645564-07 WG2115813 2000x   | 0817_12    | 305985.80          | 121533.70             | 108158.20                   |
| L1645564-08 WG2115813 2000x   | 0817_13    | 298031.50          | 125204.50             | 108503.70                   |
| L1645564-12 WG2115813 2000x   | 0817_15    | 310068.30          | 129205                | 109573.70                   |
| L1645564-13 WG2115813 2000x   | 0817_16    | 303985.70          | 123287.30             | 108961.20                   |
| L1645564-15 WG2115813 412x    | 0817_17    | 302983.30          | 129616.50             | 114775.80                   |
| L1645564-16 WG2115813 86.4x   | 0817_18    | 309107             | 131124.70             | 112242.10                   |
| L1645564-11 WG2115813 200x    | 0817_20    | 297860.90          | 127817                | 110471.20                   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Instrument: VOCMS58 • File ID: 0814\_02-1

08/14/23 06:21

| Sample ID                     | File ID   | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|-----------|--------------------|-----------------------|-----------------------------|
|                               |           | Response           | Response              | Response                    |
| Standard                      | 0814_02-1 | 1175837            | 547093                | 518055.90                   |
| Upper Limit                   |           | 2351674            | 1094186               | 1036112                     |
| Lower Limit                   |           | 587919             | 273547                | 259028                      |
| LCS R3961791-1 WG2113597 1x   | 0814_03   | 1195660            | 555227.70             | 522646.70                   |
| BLANK R3961791-2 WG2113597 1x | 0814_07   | 1162568            | 525417.80             | 477874.90                   |
| L1645564-04 WG2113597 1.04x   | 0814_09   | 1264494            | 607598.30             | 531939.90                   |
| L1645564-05 WG2113597 1.03x   | 0814_10   | 1354703            | 601501.60             | 571423.20                   |
| L1645564-06 WG2113597 1x      | 0814_11   | 1294189            | 588783.90             | 543522.30                   |
| L1645564-09 WG2113597 1.01x   | 0814_12   | 1330335            | 594657.90             | 567949.40                   |
| L1645564-10 WG2113597 1.08x   | 0814_13   | 1403951            | 635147.40             | 601773.10                   |
| L1645564-16 WG2113597 1.08x   | 0814_14   | 1345717            | 834669.10             | 558572.60                   |
| L1645564-01 WG2113597 8x      | 0814_18   | 1339171            | 713162.80             | 593634.20                   |
| L1645564-02 WG2113597 20x     | 0814_19   | 1526911            | 777802.20             | 634777.30                   |

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS58 • File ID: 0814\_02-1

08/14/23 06:21

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1645564-03 WG2113597 40x   | 0814_20 | 1510868                        | 721663.70                         | 607519                                  |
| L1645564-07 WG2113597 20x   | 0814_21 | 1590009                        | 841179.90                         | 651575.90                               |
| L1645564-08 WG2113597 20x   | 0814_22 | 1664395                        | 791300.40                         | 651565.90                               |
| L1645564-11 WG2113597 8x    | 0814_23 | 1505352                        | 700452.20                         | 658976.40                               |
| L1645564-12 WG2113597 20x   | 0814_24 | 1561511                        | 823712.40                         | 670234.90                               |
| L1645564-14 WG2113597 8x    | 0814_26 | 1671815                        | 924608.50                         | 685366.60                               |
| L1645564-15 WG2113597 8.24x | 0814_27 | 1480658                        | 776824.50                         | 662276.40                               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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  |
|-----------|--|
| B         | The same analyte is found in the associated blank.                                     |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.    |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits. |



# 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Report to:  
**Stantec**  
 Email To: zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**  
 City/State Collected: **Westport, WA**  
 Please Circle:  PT  MT  CT  ET

Phone: **425-869-9448**  
 Client Project # **145751446**  
 Lab Project # **STANTECBWA-HUNGRY**

Collected by (print): **Paul Jarney**  
 Site/Facility ID #  
 P.O. #

Collected by (signature): **Paul M. Jarney**  
**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  
 No. of Cntrs

Immediately Packed on Ice  N  Y  X

| Sample ID  | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs   |
|------------|-----------|----------|-------|---------|------|----------------|
| UST3-FL-8  | G         | SS       | 8     | 8/9/23  | 0900 | 4              |
| UST2-SW4-8 | G         | SS       | 8     | 8/9/23  | 0915 | 4              |
| UST2-SW1-8 | G         | SS       | 8     | 8/9/23  | 0920 | 4              |
| SP-SI-3    | G         | SS       | -     | 8/9/23  | 1210 | 3              |
| SP-SI-4    | G         | SS       | -     | 8/10/23 | 0735 | 3              |
| UST2-SW2-7 | G         | SS       | 7     |         | 1040 | 4              |
| UST2-SW3-7 | G         | SS       | 7     |         | 1045 | 4              |
| UST2-FL-11 | G         | SS       | 11    |         | 1330 | 4              |
| A1-SW1-4   | G         | SS       | 4     |         | 1455 | 4 <sup>3</sup> |
| A3-SW1-6   | G         | SS       | 6     |         | 1500 | 4 <sup>3</sup> |

| Analysis / Container / Preservative   |                            |                              |                       |                            |                            |                                |                             |  |  | Chain of Custody Page 1 of 2       |                     |  |
|---|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|--|--|------------------------------------|---------------------|--|
| EPH WA 4ozAmb-NoPres  | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |  |  |                                    |                     |  |
| Pace<br>PEOPLE ADVANCING SCIENCE<br><b>MT JULIET, TN</b><br>12065 Lebanon Rd Mount Juliet, TN 37122<br>Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubs/pas-standard-terms.pdf">https://info.pacelabs.com/hubs/pas-standard-terms.pdf</a> |                            |                              |                       |                            |                            |                                |                             |  |  | SDG # <b>L1645564</b>              |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | <b>G215</b>                        |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | Acctnum: <b>STANTECBWA</b>         |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | Template: <b>T234672</b>           |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | Prelogin: <b>P1013674</b>          |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | PM: <b>546 - Jared Starkey</b>     |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | PB: <b>7/25/23 CAM</b>             |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | Shipped Via: <b>FedEx Standard</b> |                     |  |
|   |                            |                              |                       |                            |                            |                                |                             |  |  | Remarks                            | Sample # (lab only) |  |

\* 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 # **6841 8344 8920**

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Correct bottles used:         | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| If Applicable                 |   |
| VOA Zero Headspace:           | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N    |

|   |                         |                      |  |  |  |
|---|-------------------------|----------------------|--|--|--|
| Relinquished by: (Signature)<br><b>Paul M. Jarney</b> | Date:<br><b>8/11/23</b> | Time:<br><b>1600</b> | Received by: (Signature)<br><b>FedEx</b>               | Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><b>2</b> | <input checked="" type="checkbox"/> MeOH<br><input type="checkbox"/> TBR |
| Relinquished by: (Signature)                          | Date:                   | Time:                | Received by: (Signature)                               | Temp: <b>4.3°C</b><br><b>3.140 = 3.1</b>   | Bottles Received: <b>54</b>  |
| Relinquished by: (Signature)                          | Date:                   | Time:                | Received for lab by: (Signature)<br><b>[Signature]</b> | Date:<br><b>8/12/23</b>  | Time:<br><b>0900</b>   |

Condition:  
 NCF / OK

Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Pres  
Chk

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com; marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
 Collected:

Please Circle:  
 PT MT CT ET

Phone: **425-869-9448**

Client Project #  
**145751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
*Paul Jarney*

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Jarney*

**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

No. of  
 Cntrs

| Sample ID                        | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs   |
|----------------------------------|-----------|----------|-------|---------|------|----------------|
| <del>A5-SW1-8</del> A4-SW1-8     | G         | SS       | B     | 8/10/23 | 1505 | 4 <sup>3</sup> |
| C5-SW4-8                         | G         | SS       | B     | 8/10/23 | 1510 | 4 <sup>3</sup> |
| E5-SW4-8                         | G         | SS       | B     | 8/10/23 | 1515 | 3              |
| <del>C5-SW4-8</del> E5-SW1-8-ADD | G         | SS       | B     | 8/10/23 | 1520 | 3              |
| SP-SI-5                          | G         | SS       | -     | 8/11/23 | 0610 | 3              |
| SP-SI-6                          | G         | SS       | -     | 8/11/23 | 0615 | 3              |
| TB-01                            | -         | SS       | -     | 8/9/23  | -    | 2              |
|                                  |           | SS       |       |         |      |                |
|                                  |           | SS       |       |         |      |                |
|                                  |           | SS       |       |         |      |                |

Paul M. Jarney

Analysis / Container / Preservative

|                      |                            |                              |                       |                            |                            |                                |                             |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
| EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|

Chain of Custody Page 2 of 2



**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/hubs/pas-standard-terms.pdf>

SDG #  
 Table #  
 Acctnum: **STANTECBWA**  
 Template: **T234672**  
 Prelogin: **P1013674**  
 PM: **546 - Jared Starkey**  
 PB: **7125/23 Cam**  
 Shipped Via: **FedEX Standard**

Remarks | Sample # (lab only)

|  |     |
|--|-----|
|  | -11 |
|  | -12 |
|  | -13 |
|  | -14 |
|  | -15 |
|  | -16 |
|  | -17 |

\* 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 # **6841 8344 8920**

**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)  
*Paul M. Jarney*

Date: **8/11/23**

Time: **1600**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes  No  
 (HCl/ MeOH TBR)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **20.20 = 3.1** Bottles Received: **54**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)  
*[Signature]*

Date: **8-17-23** Time: **0800**

Hold: Condition: NCF / OK

September 11, 2023

Revised Report

## Stantec- Bellevue, WA

Sample Delivery Group: L1646084  
Samples Received: 08/15/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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# SAMPLE SUMMARY

## A3-FL-12 L1646084-01 Solid

Collected by Paul Janney      Collected date/time 08/14/23 04:15      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114863 | 1        | 08/16/23 07:50        | 08/16/23 08:01     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 04:15        | 08/16/23 14:49     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 04:15        | 08/15/23 23:04     | JHH     | Mt. Juliet, TN |



## A1-FL-14 L1646084-02 Solid

Collected by Paul Janney      Collected date/time 08/14/23 04:45      Received date/time 08/15/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2114863 | 1        | 08/16/23 07:50        | 08/16/23 08:01     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114752 | 1        | 08/16/23 01:45        | 08/17/23 20:52     | CCE     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA               | WG2115532 | 4.32     | 08/14/23 04:45        | 08/17/23 12:57     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2115004 | 25       | 08/14/23 04:45        | 08/16/23 15:12     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114768 | 1        | 08/14/23 04:45        | 08/15/23 23:25     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114887 | 1        | 08/16/23 22:33        | 08/17/23 11:13     | KAP     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 14:59     | JDG     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 15:21     | JDG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2114852 | 1        | 08/16/23 17:13        | 08/17/23 05:53     | DSH     | Mt. Juliet, TN |

## A2-FL-14 L1646084-03 Solid

Collected by Paul Janney      Collected date/time 08/14/23 05:15      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114863 | 1        | 08/16/23 07:50        | 08/16/23 08:01     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 05:15        | 08/16/23 15:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1.02     | 08/14/23 05:15        | 08/15/23 23:47     | JHH     | Mt. Juliet, TN |

## A3-SW1-13 L1646084-04 Solid

Collected by Paul Janney      Collected date/time 08/14/23 05:20      Received date/time 08/15/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                            | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                                  | WG2114752 | 1        | 08/16/23 01:45        | 08/17/23 20:55     | CCE     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA               | WG2115532 | 1.4      | 08/14/23 05:20        | 08/17/23 12:23     | ADM     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA               | WG2116517 | 1.05     | 08/14/23 05:20        | 08/29/23 03:53     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2115004 | 27.3     | 08/14/23 05:20        | 08/16/23 15:57     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114768 | 1.05     | 08/14/23 05:20        | 08/16/23 00:08     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114887 | 1        | 08/16/23 22:33        | 08/17/23 11:00     | KAP     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 11:54     | JDG     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 14:36     | JDG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2114852 | 1        | 08/16/23 17:13        | 08/17/23 06:13     | DSH     | Mt. Juliet, TN |

## A2-FL-14-ADD L1646084-05 Solid

Collected by Paul Janney      Collected date/time 08/14/23 05:50      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25.3     | 08/14/23 05:50        | 08/16/23 16:19     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 05:50        | 08/16/23 00:29     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 1        | 08/14/23 05:50        | 08/18/23 12:34     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## A4-SW1-13 L1646084-06 Solid

Collected by Paul Janney      Collected date/time 08/14/23 06:00      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 06:00        | 08/16/23 16:42     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 06:00        | 08/16/23 00:51     | JHH     | Mt. Juliet, TN |



## SP-SI-7 L1646084-07 Solid

Collected by Paul Janney      Collected date/time 08/14/23 06:10      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116530 | 348      | 08/14/23 06:10        | 08/18/23 14:17     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 06:10        | 08/16/23 01:12     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 10       | 08/14/23 06:10        | 08/18/23 14:09     | DWR     | Mt. Juliet, TN |

## B1-FL-15 L1646084-08 Solid

Collected by Paul Janney      Collected date/time 08/14/23 06:40      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116530 | 25       | 08/14/23 06:40        | 08/18/23 13:41     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 06:40        | 08/16/23 01:34     | JHH     | Mt. Juliet, TN |

## B2-FL-13 L1646084-09 Solid

Collected by Paul Janney      Collected date/time 08/14/23 06:50      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116530 | 25       | 08/14/23 06:50        | 08/18/23 13:59     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 06:50        | 08/16/23 01:56     | JHH     | Mt. Juliet, TN |

## B2-FL-15-ADD L1646084-10 Solid

Collected by Paul Janney      Collected date/time 08/14/23 07:00      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 07:00        | 08/16/23 18:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 07:00        | 08/16/23 02:18     | JHH     | Mt. Juliet, TN |

## B3-FL-15 L1646084-11 Solid

Collected by Paul Janney      Collected date/time 08/14/23 07:05      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                       | WG2114752 | 1        | 08/16/23 01:45        | 08/17/23 20:57     | CCE     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 07:05        | 08/16/23 19:27     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 07:05        | 08/16/23 02:39     | JHH     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## B4-FL-15 L1646084-12 Solid

Collected by Paul Janney      Collected date/time 08/14/23 07:15      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 07:15        | 08/16/23 19:49     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 07:15        | 08/16/23 03:01     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 1        | 08/14/23 07:15        | 08/18/23 12:53     | DWR     | Mt. Juliet, TN |

## A4-SW4-12 L1646084-13 Solid

Collected by Paul Janney      Collected date/time 08/14/23 07:25      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114864 | 1        | 08/16/23 07:39        | 08/16/23 07:45     | CMK     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA    | WG2115532 | 4        | 08/14/23 07:25        | 08/17/23 13:32     | ADM     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA    | WG2116517 | 4        | 08/14/23 07:25        | 08/29/23 04:27     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116530 | 500      | 08/14/23 07:25        | 08/18/23 14:35     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 8        | 08/14/23 07:25        | 08/16/23 05:31     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 80       | 08/14/23 07:25        | 08/18/23 14:28     | DWR     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 12:16     | JDG     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 14:14     | JDG     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2116010 | 5        | 08/16/23 16:29        | 08/18/23 16:27     | JDG     | Mt. Juliet, TN |

## B5-SW4-12 L1646084-14 Solid

Collected by Paul Janney      Collected date/time 08/14/23 07:55      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 100      | 08/14/23 07:55        | 08/16/23 22:29     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 8        | 08/14/23 07:55        | 08/16/23 05:53     | JHH     | Mt. Juliet, TN |

## C3-FL-15 L1646084-15 Solid

Collected by Paul Janney      Collected date/time 08/14/23 08:10      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 08:10        | 08/16/23 20:12     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 08:10        | 08/16/23 03:22     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 1        | 08/14/23 08:10        | 08/18/23 13:12     | DWR     | Mt. Juliet, TN |

## C4-FL-15 L1646084-16 Solid

Collected by Paul Janney      Collected date/time 08/14/23 08:20      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 08:20        | 08/16/23 20:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 08:20        | 08/16/23 03:44     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 1        | 08/14/23 08:20        | 08/18/23 13:31     | DWR     | Mt. Juliet, TN |



# SAMPLE SUMMARY

## B1-SW2-12 L1646084-17 Solid

Collected by Paul Janney      Collected date/time 08/14/23 08:30      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                       | WG2114752 | 1        | 08/16/23 01:45        | 08/17/23 21:05     | CCE     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA    | WG2120661 | 4        | 08/14/23 08:30        | 08/29/23 09:01     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115004 | 25       | 08/14/23 08:30        | 08/16/23 21:21     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 08:30        | 08/16/23 04:05     | JHH     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 12:38     | JDG     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2116010 | 1        | 08/16/23 16:29        | 08/18/23 13:44     | JDG     | Mt. Juliet, TN |



## SP-SI-8 L1646084-18 Solid

Collected by Paul Janney      Collected date/time 08/14/23 08:35      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116530 | 505      | 08/14/23 08:35        | 08/18/23 14:54     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 08:35        | 08/16/23 04:27     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 20       | 08/14/23 08:35        | 08/18/23 14:47     | DWR     | Mt. Juliet, TN |

## C2-FL-15-ADD L1646084-19 Solid

Collected by Paul Janney      Collected date/time 08/14/23 09:15      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116631 | 25       | 08/14/23 09:15        | 08/18/23 13:22     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 1        | 08/14/23 09:15        | 08/18/23 13:50     | DWR     | Mt. Juliet, TN |

## C2-FL-15 L1646084-20 Solid

Collected by Paul Janney      Collected date/time 08/14/23 09:40      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 09:40        | 08/17/23 03:24     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114768 | 1        | 08/14/23 09:40        | 08/16/23 05:09     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116697 | 10       | 08/14/23 09:40        | 08/18/23 15:05     | DWR     | Mt. Juliet, TN |

## C1-FL-15 L1646084-21 Solid

Collected by Paul Janney      Collected date/time 08/14/23 09:50      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 09:50        | 08/17/23 03:47     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1        | 08/14/23 09:50        | 08/16/23 13:57     | DWR     | Mt. Juliet, TN |

## C1-SW2-12 L1646084-22 Solid

Collected by Paul Janney      Collected date/time 08/14/23 10:20      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 10:20        | 08/17/23 04:10     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1        | 08/14/23 10:20        | 08/16/23 14:16     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## SP-SI-9 L1646084-23 Solid

Collected by Paul Janney      Collected date/time 08/14/23 10:30      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114865 | 1        | 08/16/23 07:23        | 08/16/23 07:32     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 100      | 08/14/23 10:30        | 08/17/23 06:06     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 8        | 08/14/23 10:30        | 08/16/23 16:26     | DWR     | Mt. Juliet, TN |



## D2-FL-15 L1646084-24 Solid

Collected by Paul Janney      Collected date/time 08/14/23 12:25      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114866 | 1        | 08/16/23 08:37        | 08/16/23 08:44     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 12:25        | 08/17/23 04:33     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1        | 08/14/23 12:25        | 08/16/23 14:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116565 | 8        | 08/14/23 12:25        | 08/18/23 12:45     | JHH     | Mt. Juliet, TN |

## D3-FL-15 L1646084-25 Solid

Collected by Paul Janney      Collected date/time 08/14/23 12:45      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114866 | 1        | 08/16/23 08:37        | 08/16/23 08:44     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 12:45        | 08/17/23 04:56     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1        | 08/14/23 12:45        | 08/16/23 14:53     | DWR     | Mt. Juliet, TN |

## DUP-02 L1646084-26 Solid

Collected by Paul Janney      Collected date/time 08/14/23 00:00      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114866 | 1        | 08/16/23 08:37        | 08/16/23 08:44     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 00:00        | 08/17/23 05:20     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1.03     | 08/14/23 00:00        | 08/16/23 15:12     | DWR     | Mt. Juliet, TN |

## DUP-03 L1646084-27 Solid

Collected by Paul Janney      Collected date/time 08/14/23 00:00      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2114866 | 1        | 08/16/23 08:37        | 08/16/23 08:44     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115568 | 25       | 08/14/23 00:00        | 08/17/23 05:43     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2115218 | 1        | 08/14/23 00:00        | 08/16/23 15:30     | DWR     | Mt. Juliet, TN |

## TB-01 L1646084-28 GW

Collected by Paul Janney      Collected date/time 08/14/23 00:00      Received date/time 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2115046 | 1        | 08/16/23 12:37        | 08/16/23 12:37     | BAM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114625 | 1        | 08/16/23 01:22        | 08/16/23 01:22     | DYW     | Mt. Juliet, TN |

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey  
Project Manager

## Report Revision History

Level II Report - Version 1: 08/30/23 14:11



## Project Comments

ID Corrections

## Volatile Petroleum Hydrocarbons by Method VPHWA

The same analyte is found in the associated blank.

| Batch     | Analyte                     | Lab Sample ID |
|-----------|-----------------------------|---------------|
| WG2115532 | Adjusted C6-C8 Aliphatics   | L1646084-04   |
| WG2115532 | Unadjusted C6-C8 Aliphatics | L1646084-04   |
| WG2116517 | Adjusted C5-C6 Aliphatics   | L1646084-04   |
| WG2116517 | Unadjusted C5-C6 Aliphatics | L1646084-04   |

The associated batch QC was above the established quality control range for accuracy.

| Batch     | Lab Sample ID                                    | Analytes   |
|-----------|--|--|
| WG2115532 | (LCS) R3962306-2, (LCSD) R3962306-3, L1646084-02 | Unadjusted C5-C6 Aliphatics and Unadjusted C8-C10 Aliphatics |

## Volatile Organic Compounds (GC) by Method NWTPHGX

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID                       |
|-----------|-------------------------------|-------------------------------------|
| WG2115004 | Gasoline Range Organics-NWTPH | L1646084-01, 03, 05, 06, 12, 15, 16 |
| WG2115568 | Gasoline Range Organics-NWTPH | L1646084-21, 25, 26, 27             |

## TPH by Method EPH

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte             | Lab Sample ID                             |
|-----------|---------------------|---|
| WG2116010 | 1-Chloro-octadecane | (MS) R3962736-7, L1646084-02, 04, 13, 17  |
| WG2116010 | o-Terphenyl         | (MS) R3962736-10, L1646084-02, 04, 13, 17 |

# CASE NARRATIVE

## TPH by Method EPH

The same analyte is found in the associated blank.

| Batch     | Analyte            | Lab Sample ID           |
|-----------|--------------------|-------------------------|
| WG2116010 | C12-C16 Aliphatics | L1646084-04, 17         |
| WG2116010 | C21-C34 Aliphatics | L1646084-02, 04, 13, 17 |

The associated batch QC was below the established quality control range for accuracy.

| Batch     | Lab Sample ID                             | Analytes          |
|-----------|---|-------------------|
| WG2116010 | (LCS) R3962736-5, L1646084-02, 04, 13, 17 | C12-C16 Aromatics |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch     | Lab Sample ID                                       | Analytes  |
|-----------|---|---|
| WG2116010 | (MS) R3962736-10, (MS) R3962736-7, (MSD) R3962736-9 | C10-C12 Aromatics, C12-C16 Aliphatics, C12-C16 Aromatics, C16-C21 Aliphatics, C16-C21 Aromatics, C21-C34 Aliphatics and C21-C34 Aromatics |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID                      | Analytes   |
|-----------|------------------------------------|--|
| WG2116010 | (MSD) R3962736-8, (MSD) R3962736-9 | C16-C21 Aliphatics, C21-C34 Aliphatics and C21-C34 Aromatics |

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

Surrogate recovery limits have been exceeded; values are outside upper control limits.

| Batch     | Analyte         | Lab Sample ID    |
|-----------|-----------------|------------------|
| WG2114852 | Nitrobenzene-d5 | (LCS) R3962637-1 |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID    | Analytes   |
|-----------|------------------|--|
| WG2114852 | (MSD) R3962637-4 | 1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.4   |           | 1        | 08/16/2023 08:01 | <a href="#">WG2114863</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.87         | <a href="#">B J</a> | 1.33      | 3.93      | 25       | 08/16/2023 14:49 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8         |                     |           | 77.0-120  |          | 08/16/2023 14:49 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000738  | 0.00158   | 1        | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| Toluene                   | 0.0110       |           | 0.00205   | 0.00790   | 1        | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.00672      |           | 0.00116   | 0.00395   | 1        | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| Total Xylenes             | 0.0359       |           | 0.00139   | 0.0103    | 1        | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 91.7         |           |           | 75.0-131  |          | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 08/15/2023 23:04 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 91.9         |           |           | 70.0-130  |          | 08/15/2023 23:04 | <a href="#">WG2114768</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.2   |           | 1        | 08/16/2023 08:01 | <a href="#">WG2114863</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 1.50         |           | 0.263     | 0.631     | 1        | 08/17/2023 20:52 | <a href="#">WG2114752</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | U            | J4        | 10.8      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| Adjusted C5-C6 Aliphatics    | U            |           | 10.8      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| Unadjusted C6-C8 Aliphatics  | U            |           | 2.97      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| Adjusted C6-C8 Aliphatics    | U            |           | 2.97      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| Unadjusted C8-C10 Aliphatics | U            | J4        | 10.8      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| Adjusted C8-C10 Aliphatics   | U            |           | 10.8      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| C8-C10 Aromatics             | U            |           | 3.61      | 32.5      | 4.32     | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(FID)  | 93.7         |           |           | 60.0-140  |          | 08/17/2023 12:57 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(PID)  | 89.1         |           |           | 60.0-140  |          | 08/17/2023 12:57 | <a href="#">WG2115532</a> |

Sample Narrative:

L1646084-02 WG2115532: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U            |           | 1.33      | 3.92      | 25       | 08/16/2023 15:12 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.5         |           |           | 77.0-120  |          | 08/16/2023 15:12 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00418      |           | 0.000733  | 0.00157   | 1        | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| Toluene                   | 0.0256       |           | 0.00204   | 0.00785   | 1        | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.0182       |           | 0.00116   | 0.00393   | 1        | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| Total Xylenes             | 0.0757       |           | 0.00138   | 0.0102    | 1        | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 99.1         |           |           | 75.0-131  |          | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/15/2023 23:25 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 100          |           |           | 70.0-130  |          | 08/15/2023 23:25 | <a href="#">WG2114768</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | U            |           | 1.68      | 5.05      | 1        | 08/17/2023 11:13 | <a href="#">WG2114887</a> |
| Residual Range Organics (RRO) | U            |           | 4.21      | 12.6      | 1        | 08/17/2023 11:13 | <a href="#">WG2114887</a> |
| (S) o-Terphenyl               | 63.3         |           |           | 18.0-148  |          | 08/17/2023 11:13 | <a href="#">WG2114887</a> |



## TPH by Method EPH

| Analyte                 | Result (dry)<br>mg/kg | Qualifier          | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|-------------------------|-----------------------|--------------------|--------------------|--------------------|----------|-------------------------|---------------------------|
| C10-C12 Aliphatics      | U                     |                    | 2.12               | 6.31               | 1        | 08/18/2023 15:21        | <a href="#">WG2116010</a> |
| C12-C16 Aliphatics      | U                     |                    | 2.12               | 6.31               | 1        | 08/18/2023 15:21        | <a href="#">WG2116010</a> |
| C16-C21 Aliphatics      | U                     |                    | 2.12               | 6.31               | 1        | 08/18/2023 15:21        | <a href="#">WG2116010</a> |
| C21-C34 Aliphatics      | 4.08                  | <a href="#">BJ</a> | 2.12               | 6.31               | 1        | 08/18/2023 15:21        | <a href="#">WG2116010</a> |
| C10-C12 Aromatics       | U                     |                    | 2.68               | 6.31               | 1        | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| C12-C16 Aromatics       | U                     | <a href="#">J4</a> | 2.68               | 6.31               | 1        | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| C16-C21 Aromatics       | U                     |                    | 2.68               | 6.31               | 1        | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| C21-C34 Aromatics       | U                     |                    | 2.68               | 6.31               | 1        | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| (S) o-Terphenyl         | 66.7                  | <a href="#">J2</a> |                    | 70.0-130           |          | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| (S) 1-Chloro-octadecane | 64.2                  | <a href="#">J2</a> |                    | 70.0-130           |          | 08/18/2023 15:21        | <a href="#">WG2116010</a> |
| (S) 2-Fluorobiphenyl    | 87.0                  |                    |                    | 70.0-130           |          | 08/18/2023 14:59        | <a href="#">WG2116010</a> |
| (S) 2-Bromonaphthalene  | 89.2                  |                    |                    | 70.0-130           |          | 08/18/2023 14:59        | <a href="#">WG2116010</a> |

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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Anthracene             | U                     |           | 0.00290            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Acenaphthene           | U                     |           | 0.00264            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Acenaphthylene         | U                     |           | 0.00273            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Benzo(a)anthracene     | U                     |           | 0.00218            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Benzo(a)pyrene         | U                     |           | 0.00226            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Benzo(b)fluoranthene   | U                     |           | 0.00193            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Benzo(g,h,i)perylene   | U                     |           | 0.00224            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00272            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Chrysene               | U                     |           | 0.00293            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00217            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Fluoranthene           | U                     |           | 0.00287            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Fluorene               | U                     |           | 0.00259            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00229            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Naphthalene            | 0.0351                |           | 0.00515            | 0.0253             | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Phenanthrene           | U                     |           | 0.00292            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| Pyrene                 | U                     |           | 0.00253            | 0.00758            | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| 1-Methylnaphthalene    | 0.0272                |           | 0.00567            | 0.0253             | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| 2-Methylnaphthalene    | 0.0533                |           | 0.00539            | 0.0253             | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00588            | 0.0253             | 1        | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| (S) p-Terphenyl-d14    | 82.7                  |           |                    | 23.0-120           |          | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| (S) Nitrobenzene-d5    | 148                   |           |                    | 14.0-149           |          | 08/17/2023 05:53        | <a href="#">WG2114852</a> |
| (S) 2-Fluorobiphenyl   | 61.7                  |           |                    | 34.0-125           |          | 08/17/2023 05:53        | <a href="#">WG2114852</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.2   |           | 1        | 08/16/2023 08:01 | <a href="#">WG2114863</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier  | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.04         | <u>B J</u> | 1.30      | 3.84      | 25       | 08/16/2023 15:34 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.9         |            |           | 77.0-120  |          | 08/16/2023 15:34 | <a href="#">WG2115004</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000725  | 0.00155   | 1.02     | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| Toluene                   | 0.00323      | <u>J</u>  | 0.00202   | 0.00776   | 1.02     | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| Ethylbenzene              | U            |           | 0.00114   | 0.00388   | 1.02     | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| Total Xylenes             | 0.00671      | <u>J</u>  | 0.00137   | 0.0101    | 1.02     | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 98.0         |           |           | 75.0-131  |          | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/15/2023 23:47 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 99.7         |           |           | 70.0-130  |          | 08/15/2023 23:47 | <a href="#">WG2114768</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 85.9   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 1.73         |           | 0.242     | 0.582     | 1        | 08/17/2023 20:55 | <a href="#">WG2114752</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | 4.50         | <a href="#">B J</a> | 2.31      | 6.93      | 1.05     | 08/29/2023 03:53 | <a href="#">WG2116517</a> |
| Adjusted C5-C6 Aliphatics    | 4.50         | <a href="#">B J</a> | 2.31      | 6.93      | 1.05     | 08/29/2023 03:53 | <a href="#">WG2116517</a> |
| Unadjusted C6-C8 Aliphatics  | 6.20         | <a href="#">B J</a> | 0.816     | 8.97      | 1.4      | 08/17/2023 12:23 | <a href="#">WG2115532</a> |
| Adjusted C6-C8 Aliphatics    | 6.20         | <a href="#">B J</a> | 0.816     | 8.97      | 1.4      | 08/17/2023 12:23 | <a href="#">WG2115532</a> |
| Unadjusted C8-C10 Aliphatics | 7.25         |                     | 2.31      | 6.93      | 1.05     | 08/29/2023 03:53 | <a href="#">WG2116517</a> |
| Adjusted C8-C10 Aliphatics   | 3.81         | <a href="#">J</a>   | 2.31      | 6.93      | 1.05     | 08/29/2023 03:53 | <a href="#">WG2116517</a> |
| C8-C10 Aromatics             | 25.5         |                     | 0.995     | 8.97      | 1.4      | 08/17/2023 12:23 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(FID)  | 93.3         |                     |           | 60.0-140  |          | 08/17/2023 12:23 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(FID)  | 75.5         |                     |           | 60.0-140  |          | 08/29/2023 03:53 | <a href="#">WG2116517</a> |
| (S) 2,5-Dibromotoluene(PID)  | 86.9         |                     |           | 60.0-140  |          | 08/17/2023 12:23 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(PID)  | 85.6         |                     |           | 60.0-140  |          | 08/29/2023 03:53 | <a href="#">WG2116517</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 73.0         |           | 1.22      | 3.59      | 27.3     | 08/16/2023 15:57 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.3         |           |           | 77.0-120  |          | 08/16/2023 15:57 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00226      |           | 0.000647  | 0.00139   | 1.05     | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| Toluene                   | 0.105        |           | 0.00179   | 0.00693   | 1.05     | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.532        |           | 0.00102   | 0.00347   | 1.05     | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| Total Xylenes             | 2.80         |           | 0.00122   | 0.00901   | 1.05     | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 98.9         |           |           | 75.0-131  |          | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/16/2023 00:08 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9         |           |           | 70.0-130  |          | 08/16/2023 00:08 | <a href="#">WG2114768</a> |

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

| Analyte                       | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Diesel Range Organics (DRO)   | 6.42         |           | 1.55      | 4.66      | 1        | 08/17/2023 11:00 | <a href="#">WG2114887</a> |
| Residual Range Organics (RRO) | U            |           | 3.88      | 11.6      | 1        | 08/17/2023 11:00 | <a href="#">WG2114887</a> |
| (S) o-Terphenyl               | 63.3         |           |           | 18.0-148  |          | 08/17/2023 11:00 | <a href="#">WG2114887</a> |

Sample Narrative:

L1646084-04 WG2114887: Sample resembles laboratory standard for Kerosene.



TPH by Method EPH

| Analyte                 | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|-------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| C10-C12 Aliphatics      | U                     |           | 1.96               | 5.82               | 1        | 08/18/2023 11:54        | <a href="#">WG2116010</a> |
| C12-C16 Aliphatics      | 1.99                  | <u>BJ</u> | 1.96               | 5.82               | 1        | 08/18/2023 11:54        | <a href="#">WG2116010</a> |
| C16-C21 Aliphatics      | U                     |           | 1.96               | 5.82               | 1        | 08/18/2023 11:54        | <a href="#">WG2116010</a> |
| C21-C34 Aliphatics      | 3.74                  | <u>BJ</u> | 1.96               | 5.82               | 1        | 08/18/2023 11:54        | <a href="#">WG2116010</a> |
| C10-C12 Aromatics       | U                     |           | 2.47               | 5.82               | 1        | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| C12-C16 Aromatics       | U                     | <u>J4</u> | 2.47               | 5.82               | 1        | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| C16-C21 Aromatics       | U                     |           | 2.47               | 5.82               | 1        | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| C21-C34 Aromatics       | U                     |           | 2.47               | 5.82               | 1        | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| (S) o-Terphenyl         | 63.7                  | <u>J2</u> |                    | 70.0-130           |          | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| (S) 1-Chloro-octadecane | 65.6                  | <u>J2</u> |                    | 70.0-130           |          | 08/18/2023 11:54        | <a href="#">WG2116010</a> |
| (S) 2-Fluorobiphenyl    | 85.5                  |           |                    | 70.0-130           |          | 08/18/2023 14:36        | <a href="#">WG2116010</a> |
| (S) 2-Bromonaphthalene  | 88.4                  |           |                    | 70.0-130           |          | 08/18/2023 14:36        | <a href="#">WG2116010</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

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

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| Anthracene             | U                     |           | 0.00268            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Acenaphthene           | 0.00263               | <u>J</u>  | 0.00243            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Acenaphthylene         | U                     |           | 0.00251            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Benzo(a)anthracene     | U                     |           | 0.00201            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Benzo(a)pyrene         | U                     |           | 0.00208            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Benzo(b)fluoranthene   | U                     |           | 0.00178            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Benzo(g,h,i)perylene   | U                     |           | 0.00206            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Benzo(k)fluoranthene   | U                     |           | 0.00250            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Chrysene               | U                     |           | 0.00270            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Dibenz(a,h)anthracene  | U                     |           | 0.00200            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Fluoranthene           | U                     |           | 0.00264            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Fluorene               | 0.00325               | <u>J</u>  | 0.00239            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Indeno(1,2,3-cd)pyrene | U                     |           | 0.00211            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Naphthalene            | 0.670                 |           | 0.00475            | 0.0233             | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Phenanthrene           | 0.00547               | <u>J</u>  | 0.00269            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| Pyrene                 | U                     |           | 0.00233            | 0.00698            | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| 1-Methylnaphthalene    | 0.562                 |           | 0.00523            | 0.0233             | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| 2-Methylnaphthalene    | 1.23                  |           | 0.00497            | 0.0233             | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| 2-Chloronaphthalene    | U                     |           | 0.00542            | 0.0233             | 1        | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| (S) p-Terphenyl-d14    | 118                   |           |                    | 23.0-120           |          | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| (S) Nitrobenzene-d5    | 127                   |           |                    | 14.0-149           |          | 08/17/2023 06:13        | <a href="#">WG2114852</a> |
| (S) 2-Fluorobiphenyl   | 97.2                  |           |                    | 34.0-125           |          | 08/17/2023 06:13        | <a href="#">WG2114852</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.9   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier  | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.49         | <u>B J</u> | 1.34      | 3.96      | 25.3     | 08/16/2023 16:19 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.9         |            |           | 77.0-120  |          | 08/16/2023 16:19 | <a href="#">WG2115004</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000736  | 0.00158   | 1        | 08/16/2023 00:29 | <a href="#">WG2114768</a> |
| Toluene                   | 0.00410      | <u>J</u>  | 0.00205   | 0.00788   | 1        | 08/16/2023 00:29 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.00181      | <u>J</u>  | 0.00116   | 0.00394   | 1        | 08/18/2023 12:34 | <a href="#">WG2116697</a> |
| Total Xylenes             | 0.00525      | <u>J</u>  | 0.00139   | 0.0102    | 1        | 08/18/2023 12:34 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 98.3         |           |           | 75.0-131  |          | 08/16/2023 00:29 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 100          |           |           | 75.0-131  |          | 08/18/2023 12:34 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/16/2023 00:29 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 99.8         |           |           | 67.0-138  |          | 08/18/2023 12:34 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 100          |           |           | 70.0-130  |          | 08/16/2023 00:29 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 98.4         |           |           | 70.0-130  |          | 08/18/2023 12:34 | <a href="#">WG2116697</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 85.8   |           | 1        | 08/16/2023 07:45     | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4.59               | <u>B</u>  | 1.14            | 3.37            | 25       | 08/16/2023 16:42     | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.6               |           |                 | 77.0-120        |          | 08/16/2023 16:42     | <a href="#">WG2115004</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.000791           | <u>J</u>  | 0.000622        | 0.00133         | 1        | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| Toluene                   | 0.0101             |           | 0.00173         | 0.00666         | 1        | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.0465             |           | 0.000982        | 0.00333         | 1        | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| Total Xylenes             | 0.244              |           | 0.00117         | 0.00866         | 1        | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 97.2               |           |                 | 75.0-131        |          | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 100                |           |                 | 67.0-138        |          | 08/16/2023 00:51     | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 96.8               |           |                 | 70.0-130        |          | 08/16/2023 00:51     | <a href="#">WG2114768</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 86.9   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1330         |           | 14.8      | 43.8      | 348      | 08/18/2023 14:17 | <a href="#">WG2116530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 110          |           |           | 77.0-120  |          | 08/18/2023 14:17 | <a href="#">WG2116530</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0318       |           | 0.000609  | 0.00130   | 1        | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| Toluene                   | 0.312        |           | 0.00170   | 0.00652   | 1        | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 2.41         |           | 0.000962  | 0.00326   | 1        | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| Total Xylenes             | 29.7         |           | 0.0115    | 0.0848    | 10       | 08/18/2023 14:09 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 87.4         |           |           | 75.0-131  |          | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 08/18/2023 14:09 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 95.3         |           |           | 67.0-138  |          | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/18/2023 14:09 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9         |           |           | 70.0-130  |          | 08/16/2023 01:12 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 97.2         |           |           | 70.0-130  |          | 08/18/2023 14:09 | <a href="#">WG2116697</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 80.0   |           | 1        | 08/16/2023 07:45     | <a href="#">WG2114864</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 142                |           | 1.31            | 3.86            | 25       | 08/18/2023 13:41     | <a href="#">WG2116530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111                |           |                 | 77.0-120        |          | 08/18/2023 13:41     | <a href="#">WG2116530</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.187              |           | 0.000715        | 0.00153         | 1        | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| Toluene                   | 0.172              |           | 0.00199         | 0.00766         | 1        | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| Ethylbenzene              | 1.03               |           | 0.00113         | 0.00383         | 1        | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| Total Xylenes             | 4.95               |           | 0.00135         | 0.00995         | 1        | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 97.0               |           |                 | 75.0-131        |          | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 96.2               |           |                 | 67.0-138        |          | 08/16/2023 01:34     | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 95.8               |           |                 | 70.0-130        |          | 08/16/2023 01:34     | <a href="#">WG2114768</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.9   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 24.5         |           | 1.37      | 4.05      | 25       | 08/18/2023 13:59 | <a href="#">WG2116530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105          |           |           | 77.0-120  |          | 08/18/2023 13:59 | <a href="#">WG2116530</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0208       |           | 0.000753  | 0.00161   | 1        | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| Toluene                   | 0.145        |           | 0.00210   | 0.00806   | 1        | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.218        |           | 0.00119   | 0.00403   | 1        | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| Total Xylenes             | 1.40         |           | 0.00142   | 0.0105    | 1        | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 97.2         |           |           | 75.0-131  |          | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/16/2023 01:56 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 96.6         |           |           | 70.0-130  |          | 08/16/2023 01:56 | <a href="#">WG2114768</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.3   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 72.7         |           | 1.30      | 3.84      | 25       | 08/16/2023 18:34 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.3         |           |           | 77.0-120  |          | 08/16/2023 18:34 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0374       |           | 0.000719  | 0.00154   | 1        | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| Toluene                   | 0.330        |           | 0.00200   | 0.00770   | 1        | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.803        |           | 0.00114   | 0.00385   | 1        | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| Total Xylenes             | 2.91         |           | 0.00136   | 0.0100    | 1        | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 96.9         |           |           | 75.0-131  |          | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 99.9         |           |           | 67.0-138  |          | 08/16/2023 02:18 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 94.7         |           |           | 70.0-130  |          | 08/16/2023 02:18 | <a href="#">WG2114768</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.3   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 1.93         |           | 0.259     | 0.623     | 1        | 08/17/2023 20:57 | <a href="#">WG2114752</a> |

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 104          |           | 1.29      | 3.80      | 25       | 08/16/2023 19:27 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.9         |           |           | 77.0-120  |          | 08/16/2023 19:27 | <a href="#">WG2115004</a> |

5 Sr

6 Qc

7 Is

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.113        |           | 0.000727  | 0.00156   | 1        | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| Toluene                   | 0.425        |           | 0.00202   | 0.00779   | 1        | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 1.13         |           | 0.00115   | 0.00389   | 1        | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| Total Xylenes             | 3.33         |           | 0.00137   | 0.0101    | 1        | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 97.0         |           |           | 75.0-131  |          | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 08/16/2023 02:39 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 93.0         |           |           | 70.0-130  |          | 08/16/2023 02:39 | <a href="#">WG2114768</a> |

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.4   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier  | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|------------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.20         | <u>B J</u> | 1.34      | 3.95      | 25       | 08/16/2023 19:49 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.3         |            |           | 77.0-120  |          | 08/16/2023 19:49 | <a href="#">WG2115004</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.000790     | <u>J</u>  | 0.000745  | 0.00160   | 1        | 08/16/2023 03:01 | <a href="#">WG2114768</a> |
| Toluene                   | 0.00700      | <u>J</u>  | 0.00207   | 0.00798   | 1        | 08/16/2023 03:01 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.00274      | <u>J</u>  | 0.00118   | 0.00399   | 1        | 08/18/2023 12:53 | <a href="#">WG2116697</a> |
| Total Xylenes             | 0.0104       |           | 0.00140   | 0.0104    | 1        | 08/18/2023 12:53 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 96.4         |           |           | 75.0-131  |          | 08/16/2023 03:01 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 102          |           |           | 75.0-131  |          | 08/18/2023 12:53 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/16/2023 03:01 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 99.4         |           |           | 67.0-138  |          | 08/18/2023 12:53 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 95.8         |           |           | 70.0-130  |          | 08/16/2023 03:01 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 98.4         |           |           | 70.0-130  |          | 08/18/2023 12:53 | <a href="#">WG2116697</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 88.9   |           | 1        | 08/16/2023 07:45 | <a href="#">WG2114864</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | U            |           | 8.56      | 25.7      | 4        | 08/29/2023 04:27 | <a href="#">WG2116517</a> |
| Adjusted C5-C6 Aliphatics    | U            |           | 8.56      | 25.7      | 4        | 08/29/2023 04:27 | <a href="#">WG2116517</a> |
| Unadjusted C6-C8 Aliphatics  | 205          |           | 2.33      | 25.6      | 4        | 08/17/2023 13:32 | <a href="#">WG2115532</a> |
| Adjusted C6-C8 Aliphatics    | 205          |           | 2.33      | 25.6      | 4        | 08/17/2023 13:32 | <a href="#">WG2115532</a> |
| Unadjusted C8-C10 Aliphatics | 244          |           | 8.56      | 25.7      | 4        | 08/29/2023 04:27 | <a href="#">WG2116517</a> |
| Adjusted C8-C10 Aliphatics   | 88.1         |           | 8.56      | 25.7      | 4        | 08/29/2023 04:27 | <a href="#">WG2116517</a> |
| C8-C10 Aromatics             | 589          |           | 2.84      | 25.6      | 4        | 08/17/2023 13:32 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(FID)  | 111          |           |           | 60.0-140  |          | 08/17/2023 13:32 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(FID)  | 81.5         |           |           | 60.0-140  |          | 08/29/2023 04:27 | <a href="#">WG2116517</a> |
| (S) 2,5-Dibromotoluene(PID)  | 90.6         |           |           | 60.0-140  |          | 08/17/2023 13:32 | <a href="#">WG2115532</a> |
| (S) 2,5-Dibromotoluene(PID)  | 86.2         |           |           | 60.0-140  |          | 08/29/2023 04:27 | <a href="#">WG2116517</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1280         |           | 21.7      | 64.3      | 500      | 08/18/2023 14:35 | <a href="#">WG2116530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 107          |           |           | 77.0-120  |          | 08/18/2023 14:35 | <a href="#">WG2116530</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.52         |           | 0.00479   | 0.0102    | 8        | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| Toluene                   | 5.88         |           | 0.0133    | 0.0512    | 8        | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 19.1         |           | 0.00756   | 0.0256    | 8        | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| Total Xylenes             | 131          |           | 0.0902    | 0.666     | 80       | 08/18/2023 14:28 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 96.9         |           |           | 75.0-131  |          | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 08/18/2023 14:28 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 08/18/2023 14:28 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 93.7         |           |           | 70.0-130  |          | 08/16/2023 05:31 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/18/2023 14:28 | <a href="#">WG2116697</a> |

TPH by Method EPH

| Analyte                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C12 Aliphatics      | 47.5         |           | 1.89      | 5.63      | 1        | 08/18/2023 12:16 | <a href="#">WG2116010</a> |
| C12-C16 Aliphatics      | 27.9         |           | 1.89      | 5.63      | 1        | 08/18/2023 12:16 | <a href="#">WG2116010</a> |
| C16-C21 Aliphatics      | 3.08         | J         | 1.89      | 5.63      | 1        | 08/18/2023 12:16 | <a href="#">WG2116010</a> |
| C21-C34 Aliphatics      | 22.2         | B         | 1.89      | 5.63      | 1        | 08/18/2023 12:16 | <a href="#">WG2116010</a> |
| C10-C12 Aromatics       | 127          |           | 11.9      | 28.1      | 5        | 08/18/2023 16:27 | <a href="#">WG2116010</a> |
| C12-C16 Aromatics       | 50.0         | J4        | 2.39      | 5.63      | 1        | 08/18/2023 14:14 | <a href="#">WG2116010</a> |
| C16-C21 Aromatics       | 8.49         |           | 2.39      | 5.63      | 1        | 08/18/2023 14:14 | <a href="#">WG2116010</a> |
| C21-C34 Aromatics       | 16.3         |           | 2.39      | 5.63      | 1        | 08/18/2023 14:14 | <a href="#">WG2116010</a> |
| (S) o-Terphenyl         | 56.0         | J2        |           | 70.0-130  |          | 08/18/2023 14:14 | <a href="#">WG2116010</a> |
| (S) o-Terphenyl         | 58.1         | J2        |           | 70.0-130  |          | 08/18/2023 16:27 | <a href="#">WG2116010</a> |
| (S) 1-Chloro-octadecane | 54.5         | J2        |           | 70.0-130  |          | 08/18/2023 12:16 | <a href="#">WG2116010</a> |
| (S) 2-Fluorobiphenyl    | 88.5         |           |           | 70.0-130  |          | 08/18/2023 16:27 | <a href="#">WG2116010</a> |
| (S) 2-Fluorobiphenyl    | 83.8         |           |           | 70.0-130  |          | 08/18/2023 14:14 | <a href="#">WG2116010</a> |
| (S) 2-Bromonaphthalene  | 85.0         |           |           | 70.0-130  |          | 08/18/2023 14:14 | <a href="#">WG2116010</a> |



TPH by Method EPH

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| (S) 2-Bromonaphthalene | 73.5                  |           |                    | 70.0-130           |          | 08/18/2023 16:27        | <a href="#">WG2116010</a> |

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 81.4   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 728          |           | 5.15      | 15.2      | 100      | 08/16/2023 22:29 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.7         |           |           | 77.0-120  |          | 08/16/2023 22:29 | <a href="#">WG2115004</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.71         |           | 0.00561   | 0.0120    | 8        | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| Toluene                   | 0.145        |           | 0.0156    | 0.0600    | 8        | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 1.01         |           | 0.00885   | 0.0300    | 8        | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| Total Xylenes             | 27.3         |           | 0.0106    | 0.0780    | 8        | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 98.1         |           |           | 75.0-131  |          | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/16/2023 05:53 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/16/2023 05:53 | <a href="#">WG2114768</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.0   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5.81         | <u>B</u>  | 1.32      | 3.90      | 25       | 08/16/2023 20:12 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.8         |           |           | 77.0-120  |          | 08/16/2023 20:12 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.110        |           | 0.000732  | 0.00157   | 1        | 08/16/2023 03:22 | <a href="#">WG2114768</a> |
| Toluene                   | 0.00396      | <u>J</u>  | 0.00204   | 0.00783   | 1        | 08/16/2023 03:22 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 0.00290      | <u>J</u>  | 0.00115   | 0.00392   | 1        | 08/18/2023 13:12 | <a href="#">WG2116697</a> |
| Total Xylenes             | 0.00868      | <u>J</u>  | 0.00138   | 0.0102    | 1        | 08/18/2023 13:12 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 96.0         |           |           | 75.0-131  |          | 08/16/2023 03:22 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 102          |           |           | 75.0-131  |          | 08/18/2023 13:12 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/16/2023 03:22 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/18/2023 13:12 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9         |           |           | 70.0-130  |          | 08/16/2023 03:22 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 97.4         |           |           | 70.0-130  |          | 08/18/2023 13:12 | <a href="#">WG2116697</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 76.4   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5.58         | <u>B</u>  | 1.40      | 4.13      | 25       | 08/16/2023 20:34 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.0         |           |           | 77.0-120  |          | 08/16/2023 20:34 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000771  | 0.00165   | 1        | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| Toluene                   | 0.00231      | <u>J</u>  | 0.00215   | 0.00825   | 1        | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| Ethylbenzene              | U            |           | 0.00122   | 0.00413   | 1        | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| Total Xylenes             | 0.00416      | <u>J</u>  | 0.00145   | 0.0107    | 1        | 08/18/2023 13:31 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 95.4         |           |           | 75.0-131  |          | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/18/2023 13:31 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/18/2023 13:31 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 96.8         |           |           | 70.0-130  |          | 08/16/2023 03:44 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 93.8         |           |           | 70.0-130  |          | 08/18/2023 13:31 | <a href="#">WG2116697</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.9   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 1.43         |           | 0.267     | 0.641     | 1        | 08/17/2023 21:05 | <a href="#">WG2114752</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | U            |           | 10.5      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| Adjusted C5-C6 Aliphatics    | U            |           | 10.5      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| Unadjusted C6-C8 Aliphatics  | 29.4         | J         | 2.88      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| Adjusted C6-C8 Aliphatics    | 29.3         | J         | 2.88      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| Unadjusted C8-C10 Aliphatics | 24.7         | J         | 10.5      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| Adjusted C8-C10 Aliphatics   | 18.3         | J         | 10.5      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| C8-C10 Aromatics             | 60.1         |           | 3.51      | 31.6      | 4        | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(FID)  | 84.4         |           |           | 60.0-140  |          | 08/29/2023 09:01 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(PID)  | 93.3         |           |           | 60.0-140  |          | 08/29/2023 09:01 | <a href="#">WG2120661</a> |

Sample Narrative:

L1646084-17 WG2120661: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 405          |           | 1.34      | 3.96      | 25       | 08/16/2023 21:21 | <a href="#">WG2115004</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103          |           |           | 77.0-120  |          | 08/16/2023 21:21 | <a href="#">WG2115004</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.137        |           | 0.000744  | 0.00159   | 1        | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| Toluene                   | 0.0196       |           | 0.00207   | 0.00796   | 1        | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 1.94         |           | 0.00117   | 0.00398   | 1        | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| Total Xylenes             | 4.46         |           | 0.00140   | 0.0104    | 1        | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 95.7         |           |           | 75.0-131  |          | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 08/16/2023 04:05 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1         |           |           | 70.0-130  |          | 08/16/2023 04:05 | <a href="#">WG2114768</a> |

TPH by Method EPH

| Analyte                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C12 Aliphatics      | 8.76         |           | 2.16      | 6.41      | 1        | 08/18/2023 12:38 | <a href="#">WG2116010</a> |
| C12-C16 Aliphatics      | 7.31         | B         | 2.16      | 6.41      | 1        | 08/18/2023 12:38 | <a href="#">WG2116010</a> |
| C16-C21 Aliphatics      | U            |           | 2.16      | 6.41      | 1        | 08/18/2023 12:38 | <a href="#">WG2116010</a> |
| C21-C34 Aliphatics      | 5.12         | B J       | 2.16      | 6.41      | 1        | 08/18/2023 12:38 | <a href="#">WG2116010</a> |
| C10-C12 Aromatics       | 5.27         | J         | 2.72      | 6.41      | 1        | 08/18/2023 13:44 | <a href="#">WG2116010</a> |
| C12-C16 Aromatics       | 3.94         | J J4      | 2.72      | 6.41      | 1        | 08/18/2023 13:44 | <a href="#">WG2116010</a> |
| C16-C21 Aromatics       | 3.41         | J         | 2.72      | 6.41      | 1        | 08/18/2023 13:44 | <a href="#">WG2116010</a> |
| C21-C34 Aromatics       | U            |           | 2.72      | 6.41      | 1        | 08/18/2023 13:44 | <a href="#">WG2116010</a> |
| (S) o-Terphenyl         | 68.6         | J2        |           | 70.0-130  |          | 08/18/2023 13:44 | <a href="#">WG2116010</a> |
| (S) 1-Chloro-octadecane | 67.3         | J2        |           | 70.0-130  |          | 08/18/2023 12:38 | <a href="#">WG2116010</a> |



TPH by Method EPH

| Analyte                | Result (dry)<br>mg/kg | Qualifier | MDL (dry)<br>mg/kg | RDL (dry)<br>mg/kg | Dilution | Analysis<br>date / time | Batch                     |
|------------------------|-----------------------|-----------|--------------------|--------------------|----------|-------------------------|---------------------------|
| (S) 2-Fluorobiphenyl   | 84.0                  |           |                    | 70.0-130           |          | 08/18/2023 13:44        | <a href="#">WG2116010</a> |
| (S) 2-Bromonaphthalene | 85.9                  |           |                    | 70.0-130           |          | 08/18/2023 13:44        | <a href="#">WG2116010</a> |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 87.4   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1240         |           | 22.0      | 65.0      | 505      | 08/18/2023 14:54 | <a href="#">WG2116530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 106          |           |           | 77.0-120  |          | 08/18/2023 14:54 | <a href="#">WG2116530</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.278        |           | 0.000601  | 0.00129   | 1        | 08/16/2023 04:27 | <a href="#">WG2114768</a> |
| Toluene                   | 2.64         |           | 0.00167   | 0.00644   | 1        | 08/16/2023 04:27 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 7.97         |           | 0.0189    | 0.0644    | 20       | 08/18/2023 14:47 | <a href="#">WG2116697</a> |
| Total Xylenes             | 53.7         |           | 0.0227    | 0.167     | 20       | 08/18/2023 14:47 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 92.3         |           |           | 75.0-131  |          | 08/16/2023 04:27 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 08/18/2023 14:47 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 110          |           |           | 67.0-138  |          | 08/16/2023 04:27 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 08/18/2023 14:47 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 88.9         |           |           | 70.0-130  |          | 08/16/2023 04:27 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/18/2023 14:47 | <a href="#">WG2116697</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.1   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 8.62         |           | 1.38      | 4.08      | 25       | 08/18/2023 13:22 | <a href="#">WG2116631</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 106          |           |           | 77.0-120  |          | 08/18/2023 13:22 | <a href="#">WG2116631</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0144       |           | 0.000761  | 0.00163   | 1        | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| Toluene                   | 0.00762      | J         | 0.00212   | 0.00815   | 1        | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| Ethylbenzene              | 0.0277       |           | 0.00120   | 0.00407   | 1        | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| Total Xylenes             | 0.0275       |           | 0.00143   | 0.0106    | 1        | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 102          |           |           | 75.0-131  |          | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 99.1         |           |           | 67.0-138  |          | 08/18/2023 13:50 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 98.9         |           |           | 70.0-130  |          | 08/18/2023 13:50 | <a href="#">WG2116697</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.9   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 223          |           | 1.41      | 4.16      | 25       | 08/17/2023 03:24 | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 107          |           |           | 77.0-120  |          | 08/17/2023 03:24 | <a href="#">WG2115568</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0382       |           | 0.000747  | 0.00160   | 1        | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| Toluene                   | 0.436        |           | 0.00208   | 0.00799   | 1        | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| Ethylbenzene              | 2.59         |           | 0.00118   | 0.00400   | 1        | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| Total Xylenes             | 19.3         |           | 0.0141    | 0.104     | 10       | 08/18/2023 15:05 | <a href="#">WG2116697</a> |
| (S) Toluene-d8            | 97.6         |           |           | 75.0-131  |          | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 08/18/2023 15:05 | <a href="#">WG2116697</a> |
| (S) 4-Bromofluorobenzene  | 94.9         |           |           | 67.0-138  |          | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/18/2023 15:05 | <a href="#">WG2116697</a> |
| (S) 1,2-Dichloroethane-d4 | 95.8         |           |           | 70.0-130  |          | 08/16/2023 05:09 | <a href="#">WG2114768</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/18/2023 15:05 | <a href="#">WG2116697</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.0   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 7.39         | <u>B</u>  | 1.38      | 4.06      | 25       | 08/17/2023 03:47 | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 85.2         |           |           | 77.0-120  |          | 08/17/2023 03:47 | <a href="#">WG2115568</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.132        |           | 0.000768  | 0.00164   | 1        | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| Toluene                   | 0.0205       |           | 0.00214   | 0.00822   | 1        | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| Ethylbenzene              | 0.0833       |           | 0.00121   | 0.00411   | 1        | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| Total Xylenes             | 0.306        |           | 0.00145   | 0.0107    | 1        | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 114          |           |           | 75.0-131  |          | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 08/16/2023 13:57 | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 91.6         |           |           | 70.0-130  |          | 08/16/2023 13:57 | <a href="#">WG2115218</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 82.5   |           | 1        | 08/16/2023 07:32     | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 33.6               |           | 1.29            | 3.80            | 25       | 08/17/2023 04:10     | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 80.4               |           |                 | 77.0-120        |          | 08/17/2023 04:10     | <a href="#">WG2115568</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.127              |           | 0.000707        | 0.00151         | 1        | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| Toluene                   | 0.0217             |           | 0.00197         | 0.00757         | 1        | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| Ethylbenzene              | 0.798              |           | 0.00112         | 0.00379         | 1        | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| Total Xylenes             | 2.29               |           | 0.00133         | 0.00985         | 1        | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 102                |           |                 | 67.0-138        |          | 08/16/2023 14:16     | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 89.6               |           |                 | 70.0-130        |          | 08/16/2023 14:16     | <a href="#">WG2115218</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 88.1   |           | 1        | 08/16/2023 07:32 | <a href="#">WG2114865</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 398          |           | 4.33      | 12.8      | 100      | 08/17/2023 06:06 | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 86.3         |           |           | 77.0-120  |          | 08/17/2023 06:06 | <a href="#">WG2115568</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0363       |           | 0.00478   | 0.0102    | 8        | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| Toluene                   | 1.42         |           | 0.0133    | 0.0511    | 8        | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| Ethylbenzene              | 5.34         |           | 0.00754   | 0.0256    | 8        | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| Total Xylenes             | 31.3         |           | 0.00900   | 0.0665    | 8        | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/16/2023 16:26 | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 92.3         |           |           | 70.0-130  |          | 08/16/2023 16:26 | <a href="#">WG2115218</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.4   |           | 1        | 08/16/2023 08:44 | <a href="#">WG2114866</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 65.4         |           | 1.30      | 3.83      | 25       | 08/17/2023 04:33 | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.5         |           |           | 77.0-120  |          | 08/17/2023 04:33 | <a href="#">WG2115568</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.107        |           | 0.000719  | 0.00154   | 1        | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| Toluene                   | 0.403        |           | 0.00200   | 0.00770   | 1        | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| Ethylbenzene              | 1.94         |           | 0.00113   | 0.00385   | 1        | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| Total Xylenes             | 9.35         |           | 0.0108    | 0.0801    | 8        | 08/18/2023 12:45 | <a href="#">WG2116565</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/18/2023 12:45 | <a href="#">WG2116565</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 107          |           |           | 67.0-138  |          | 08/18/2023 12:45 | <a href="#">WG2116565</a> |
| (S) 1,2-Dichloroethane-d4 | 89.6         |           |           | 70.0-130  |          | 08/16/2023 14:34 | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 97.2         |           |           | 70.0-130  |          | 08/18/2023 12:45 | <a href="#">WG2116565</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.0   |           | 1        | 08/16/2023 08:44 | <a href="#">WG2114866</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 10.4         | <u>B</u>  | 1.32      | 3.88      | 25       | 08/17/2023 04:56 | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 88.0         |           |           | 77.0-120  |          | 08/17/2023 04:56 | <a href="#">WG2115568</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.0227       |           | 0.000722  | 0.00155   | 1        | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| Toluene                   | 0.603        |           | 0.00201   | 0.00773   | 1        | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| Ethylbenzene              | 0.541        |           | 0.00114   | 0.00386   | 1        | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| Total Xylenes             | 3.18         |           | 0.00136   | 0.0100    | 1        | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 99.7         |           |           | 67.0-138  |          | 08/16/2023 14:53 | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 87.6         |           |           | 70.0-130  |          | 08/16/2023 14:53 | <a href="#">WG2115218</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 85.7   |           | 1        | 08/16/2023 08:44     | <a href="#">WG2114866</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4.93               | <u>B</u>  | 1.14            | 3.37            | 25       | 08/17/2023 05:20     | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 88.4               |           |                 | 77.0-120        |          | 08/17/2023 05:20     | <a href="#">WG2115568</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.00130            | <u>J</u>  | 0.000639        | 0.00137         | 1.03     | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| Toluene                   | 0.0161             |           | 0.00178         | 0.00684         | 1.03     | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| Ethylbenzene              | 0.0594             |           | 0.00101         | 0.00343         | 1.03     | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| Total Xylenes             | 0.297              |           | 0.00120         | 0.00890         | 1.03     | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 115                |           |                 | 75.0-131        |          | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 98.7               |           |                 | 67.0-138        |          | 08/16/2023 15:12     | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 87.4               |           |                 | 70.0-130        |          | 08/16/2023 15:12     | <a href="#">WG2115218</a> |

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

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 77.5   |           | 1        | 08/16/2023 08:44     | <a href="#">WG2114866</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 10.8               | <u>B</u>  | 1.40            | 4.12            | 25       | 08/17/2023 05:43     | <a href="#">WG2115568</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.1               |           |                 | 77.0-120        |          | 08/17/2023 05:43     | <a href="#">WG2115568</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.0214             |           | 0.000770        | 0.00165         | 1        | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| Toluene                   | 0.577              |           | 0.00214         | 0.00824         | 1        | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| Ethylbenzene              | 0.506              |           | 0.00122         | 0.00412         | 1        | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| Total Xylenes             | 2.97               |           | 0.00145         | 0.0107          | 1        | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| (S) Toluene-d8            | 117                |           |                 | 75.0-131        |          | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| (S) 4-Bromofluorobenzene  | 101                |           |                 | 67.0-138        |          | 08/16/2023 15:30     | <a href="#">WG2115218</a> |
| (S) 1,2-Dichloroethane-d4 | 89.0               |           |                 | 70.0-130        |          | 08/16/2023 15:30     | <a href="#">WG2115218</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/16/2023 12:37     | <a href="#">WG2115046</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105    |           |      | 78.0-120 |          | 08/16/2023 12:37     | <a href="#">WG2115046</a> |

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

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| (S) Toluene-d8            | 104    |           |        | 80.0-120 |          | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| (S) 4-Bromofluorobenzene  | 92.8   |           |        | 77.0-126 |          | 08/16/2023 01:22     | <a href="#">WG2114625</a> |
| (S) 1,2-Dichloroethane-d4 | 111    |           |        | 70.0-130 |          | 08/16/2023 01:22     | <a href="#">WG2114625</a> |

Method Blank (MB)

(MB) R3961449-1 08/16/23 08:01

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00300   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1645676-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1645676-03 08/16/23 08:01 • (DUP) R3961449-3 08/16/23 08:01

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 76.9            | 76.6       | 1        | 0.511   |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3961449-2 08/16/23 08:01

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 99.9     | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961443-1 08/16/23 07:45

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00200   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1646084-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1646084-06 08/16/23 07:45 • (DUP) R3961443-3 08/16/23 07:45

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 85.8            | 86.1       | 1        | 0.345   |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3961443-2 08/16/23 07:45

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961441-1 08/16/23 07:32

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00300   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1646084-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1646084-16 08/16/23 07:32 • (DUP) R3961441-3 08/16/23 07:32

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 76.4            | 79.4       | 1        | 3.78    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3961441-2 08/16/23 07:32

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961468-1 08/16/23 08:44

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00200   |              |        |        |

1 Cp

2 Tc

3 Ss

L1646084-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1646084-26 08/16/23 08:44 • (DUP) R3961468-3 08/16/23 08:44

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 85.7            | 85.4       | 1        | 0.356   |               | 10             |

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3961468-2 08/16/23 08:44

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962308-1 08/17/23 20:34

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3962308-2 08/17/23 20:37

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 96.3                | 96.3          | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1646114-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646114-04 08/17/23 20:39 • (MS) R3962308-5 08/17/23 20:47 • (MSD) R3962308-6 08/17/23 20:49

| Analyte | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 112                         | 8.67                           | 118                      | 118                       | 97.6         | 98.0          | 1        | 75.0-125         |              |               | 0.431    | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962306-1 08/17/23 07:50

| Analyte                      | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------|--------------------|--------------|-----------------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 2.57               | U            | 1.67            | 5.00            |
| Adjusted C5-C6 Aliphatics    | 2.57               | U            | 1.67            | 5.00            |
| Unadjusted C6-C8 Aliphatics  | 0.519              | U            | 0.455           | 5.00            |
| Adjusted C6-C8 Aliphatics    | 0.519              | U            | 0.455           | 5.00            |
| Unadjusted C8-C10 Aliphatics | U                  |              | 1.67            | 5.00            |
| Adjusted C8-C10 Aliphatics   | U                  |              | 1.67            | 5.00            |
| C8-C10 Aromatics             | U                  |              | 0.555           | 5.00            |
| (S) 2,5-Dibromotoluene(FID)  | 95.0               |              |                 | 60.0-140        |
| (S) 2,5-Dibromotoluene(PID)  | 89.4               |              |                 | 60.0-140        |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

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

(LCS) R3962306-2 08/17/23 14:40 • (LCSD) R3962306-3 08/17/23 15:14

| Analyte                      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 30.0                  | 39.6                | 41.1                 | 132           | 137            | 70.0-130         | J4            | J4             | 3.72     | 25              |
| Unadjusted C6-C8 Aliphatics  | 20.0                  | 25.3                | 25.8                 | 127           | 129            | 70.0-130         |               |                | 1.96     | 25              |
| Unadjusted C8-C10 Aliphatics | 60.0                  | 82.9                | 85.3                 | 138           | 142            | 70.0-130         | J4            | J4             | 2.85     | 25              |
| C8-C10 Aromatics             | 50.0                  | 57.2                | 59.3                 | 114           | 119            | 70.0-130         |               |                | 3.61     | 25              |
| (S) 2,5-Dibromotoluene(FID)  |                       |                     |                      | 100           | 101            | 60.0-140         |               |                |          |                 |
| (S) 2,5-Dibromotoluene(PID)  |                       |                     |                      | 91.2          | 93.1           | 60.0-140         |               |                |          |                 |

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3967193-3 08/29/23 02:44

| Analyte                      | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------|--------------------|--------------|-----------------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 2.08               | U            | 1.67            | 5.00            |
| Adjusted C5-C6 Aliphatics    | 2.08               | U            | 1.67            | 5.00            |
| Unadjusted C8-C10 Aliphatics | U                  |              | 1.67            | 5.00            |
| Adjusted C8-C10 Aliphatics   | U                  |              | 1.67            | 5.00            |
| (S) 2,5-Dibromotoluene(FID)  | 76.3               |              |                 | 60.0-140        |
| (S) 2,5-Dibromotoluene(PID)  | 88.1               |              |                 | 60.0-140        |

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

(LCS) R3967193-1 08/29/23 00:27 • (LCSD) R3967193-2 08/29/23 01:02

| Analyte                      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 30.0                  | 25.3                | 26.2                 | 84.3          | 87.3           | 70.0-130         |               |                | 3.50     | 25              |
| Unadjusted C8-C10 Aliphatics | 60.0                  | 66.0                | 68.9                 | 110           | 115            | 70.0-130         |               |                | 4.30     | 25              |
| (S) 2,5-Dibromotoluene(FID)  |                       |                     |                      | 83.7          | 86.5           | 60.0-140         |               |                |          |                 |
| (S) 2,5-Dibromotoluene(PID)  |                       |                     |                      | 93.2          | 95.9           | 60.0-140         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3967194-3 08/29/23 02:44

| Analyte                      | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------|--------------------|--------------|-----------------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 2.08               | U            | 1.67            | 5.00            |
| Adjusted C5-C6 Aliphatics    | 2.08               | U            | 1.67            | 5.00            |
| Unadjusted C6-C8 Aliphatics  | U                  |              | 0.455           | 5.00            |
| Adjusted C6-C8 Aliphatics    | U                  |              | 0.455           | 5.00            |
| Unadjusted C8-C10 Aliphatics | U                  |              | 1.67            | 5.00            |
| Adjusted C8-C10 Aliphatics   | U                  |              | 1.67            | 5.00            |
| C8-C10 Aromatics             | U                  |              | 0.555           | 5.00            |
| (S) 2,5-Dibromotoluene(FID)  | 76.3               |              |                 | 60.0-140        |
| (S) 2,5-Dibromotoluene(PID)  | 88.1               |              |                 | 60.0-140        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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

(LCS) R3967194-1 08/29/23 00:27 • (LCSD) R3967194-2 08/29/23 01:02

| Analyte                      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 30.0                  | 25.3                | 26.2                 | 84.3          | 87.3           | 70.0-130         |               |                | 3.50     | 25              |
| Unadjusted C6-C8 Aliphatics  | 20.0                  | 18.5                | 19.2                 | 92.5          | 96.0           | 70.0-130         |               |                | 3.71     | 25              |
| Unadjusted C8-C10 Aliphatics | 60.0                  | 66.0                | 68.9                 | 110           | 115            | 70.0-130         |               |                | 4.30     | 25              |
| C8-C10 Aromatics             | 50.0                  | 61.4                | 63.3                 | 123           | 127            | 70.0-130         |               |                | 3.05     | 25              |
| (S) 2,5-Dibromotoluene(FID)  |                       |                     |                      | 83.7          | 86.5           | 60.0-140         |               |                |          |                 |
| (S) 2,5-Dibromotoluene(PID)  |                       |                     |                      | 93.2          | 95.9           | 60.0-140         |               |                |          |                 |

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962322-2 08/16/23 10:37

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.09               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.8               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962322-1 08/16/23 09:52

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.35                | 97.3          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 100           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3962397-3 08/17/23 02:04

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 1.31               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 91.9               |              |                 | 77.0-120        |

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

(LCS) R3962397-1 08/17/23 00:31 • (LCSD) R3962397-2 08/17/23 00:55

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 4.38                | 4.56                 | 79.6          | 82.9           | 71.0-124         |               |                | 4.03     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 97.4          | 96.3           | 77.0-120         |               |                |          |                 |

L1645575-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645575-01 08/17/23 06:52 • (MS) R3962397-4 08/17/23 10:43 • (MSD) R3962397-5 08/17/23 11:06

| Analyte                            | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 210                         | 2.08                           | 159                      | 179                       | 74.7         | 84.1          | 27       | 50.0-150         |              |               | 11.8     | 27              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                             |                                |                          |                           | 99.3         | 101           |          | 77.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962548-2 08/18/23 12:25

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | U                  |              | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 112                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962548-1 08/18/23 10:33

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.55                | 101           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 113           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3962549-2 08/18/23 12:25

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | U                  |              | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 112                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3962549-1 08/18/23 10:33

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.55                | 101           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 113           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3962172-3 08/16/23 11:47

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 104               |              |                | 78.0-120       |

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

(LCS) R3962172-1 08/16/23 10:27 • (LCSD) R3962172-2 08/16/23 11:03

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5430               | 4950                | 98.7          | 90.0           | 70.0-124         |               |                | 9.25     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    |                     | 102           | 103            | 78.0-120         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961334-3 08/15/23 21:37

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 104       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 91.8      |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 108       |              |        | 70.0-130 |

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

(LCS) R3961334-1 08/15/23 20:15 • (LCSD) R3961334-2 08/15/23 20:35

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 5.00         | 5.15       | 5.18        | 103      | 104       | 70.0-123    |               |                | 0.581 | 20         |
| Toluene                          | 5.00         | 4.97       | 4.83        | 99.4     | 96.6      | 79.0-120    |               |                | 2.86  | 20         |
| Ethylbenzene                     | 5.00         | 4.98       | 4.83        | 99.6     | 96.6      | 79.0-123    |               |                | 3.06  | 20         |
| Total Xylenes                    | 15.0         | 14.3       | 14.2        | 95.3     | 94.7      | 79.0-123    |               |                | 0.702 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 101      | 99.1      | 80.0-120    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 92.8     | 89.8      | 77.0-126    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 108      | 107       | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962427-3 08/15/23 22:09

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/kg     |              | mg/kg    | 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            | 96.3      |              |          | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 101       |              |          | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 95.7      |              |          | 70.0-130 |

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

(LCS) R3962427-1 08/15/23 20:23 • (LCSD) R3962427-2 08/15/23 20:44

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                           | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                   | 0.125        | 0.131      | 0.128       | 105      | 102       | 70.0-123    |               |                | 2.32  | 20         |
| Toluene                   | 0.125        | 0.106      | 0.109       | 84.8     | 87.2      | 75.0-121    |               |                | 2.79  | 20         |
| Ethylbenzene              | 0.125        | 0.116      | 0.116       | 92.8     | 92.8      | 74.0-126    |               |                | 0.000 | 20         |
| Total Xylenes             | 0.375        | 0.333      | 0.348       | 88.8     | 92.8      | 72.0-127    |               |                | 4.41  | 20         |
| (S) Toluene-d8            |              |            |             | 91.7     | 91.4      | 75.0-131    |               |                |       |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 108      | 109       | 67.0-138    |               |                |       |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 110      | 109       | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962362-3 08/16/23 10:37

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/kg     |              | mg/kg    | 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            | 116       |              |          | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 97.9      |              |          | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 87.7      |              |          | 70.0-130 |

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

(LCS) R3962362-1 08/16/23 09:04 • (LCSD) R3962362-2 08/16/23 09:23

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                           | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                   | 0.125        | 0.110      | 0.108       | 88.0     | 86.4      | 70.0-123    |               |                | 1.83  | 20         |
| Toluene                   | 0.125        | 0.121      | 0.121       | 96.8     | 96.8      | 75.0-121    |               |                | 0.000 | 20         |
| Ethylbenzene              | 0.125        | 0.131      | 0.128       | 105      | 102       | 74.0-126    |               |                | 2.32  | 20         |
| Total Xylenes             | 0.375        | 0.393      | 0.382       | 105      | 102       | 72.0-127    |               |                | 2.84  | 20         |
| (S) Toluene-d8            |              |            |             | 112      | 113       | 75.0-131    |               |                |       |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 104      | 99.7      | 67.0-138    |               |                |       |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 101      | 97.7      | 70.0-130    |               |                |       |            |

L1644903-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1644903-02 08/16/23 18:18 • (MS) R3962362-4 08/16/23 20:03 • (MSD) R3962362-5 08/16/23 20:54

| Analyte                   | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
|                           | mg/kg              | mg/kg                 | mg/kg           | mg/kg            | %       | %        |          | %           |              |               | %    | %          |
| Benzene                   | 2.11               | U                     | 2.03            | 1.74             | 96.0    | 82.4     | 8        | 10.0-149    |              |               | 15.2 | 37         |
| Toluene                   | 2.11               | U                     | 2.32            | 1.99             | 110     | 94.1     | 8        | 10.0-156    |              |               | 15.6 | 38         |
| Ethylbenzene              | 2.11               | U                     | 2.56            | 2.04             | 121     | 96.7     | 8        | 10.0-160    |              |               | 22.3 | 38         |
| Total Xylenes             | 6.34               | 0.0177                | 7.60            | 6.25             | 120     | 98.7     | 8        | 10.0-160    |              |               | 19.5 | 38         |
| (S) Toluene-d8            |                    |                       |                 |                  | 114     | 115      |          | 75.0-131    |              |               |      |            |
| (S) 4-Bromofluorobenzene  |                    |                       |                 |                  | 102     | 101      |          | 67.0-138    |              |               |      |            |
| (S) 1,2-Dichloroethane-d4 |                    |                       |                 |                  | 88.7    | 93.2     |          | 70.0-130    |              |               |      |            |

Sample Narrative:

OS: Lowest possible dilution due to sample foaming.



Method Blank (MB)

(MB) R3962545-2 08/18/23 11:00

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 105                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 105                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 97.2               |              |                 | 70.0-130        |

Laboratory Control Sample (LCS)

(LCS) R3962545-1 08/18/23 09:44

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Total Xylenes             | 0.375                 | 0.424               | 113           | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 105           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 105           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 99.1          | 70.0-130         |               |

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

Method Blank (MB)

(MB) R3962669-3 08/18/23 11:51

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 103       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 101       |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 98.9      |              |          | 70.0-130 |

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

(LCS) R3962669-1 08/18/23 09:29 • (LCSD) R3962669-2 08/18/23 09:48

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 0.125        | 0.120      | 0.120       | 96.0     | 96.0      | 70.0-123    |               |                | 0.000 | 20         |
| Toluene                          | 0.125        | 0.111      | 0.109       | 88.8     | 87.2      | 75.0-121    |               |                | 1.82  | 20         |
| Ethylbenzene                     | 0.125        | 0.112      | 0.110       | 89.6     | 88.0      | 74.0-126    |               |                | 1.80  | 20         |
| Total Xylenes                    | 0.375        | 0.315      | 0.317       | 84.0     | 84.5      | 72.0-127    |               |                | 0.633 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 101      | 98.9      | 75.0-131    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 100      | 97.4      | 67.0-138    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 102      | 102       | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962023-1 08/17/23 09:02

| Analyte                       | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------------|--------------------|--------------|-----------------|-----------------|
| Diesel Range Organics (DRO)   | U                  |              | 1.33            | 4.00            |
| Residual Range Organics (RRO) | U                  |              | 3.33            | 10.0            |
| <i>(S) o-Terphenyl</i>        | 67.0               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3962023-2 08/17/23 09:15

| Analyte                     | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Diesel Range Organics (DRO) | 50.0                  | 33.4                | 66.8          | 50.0-150         |               |
| <i>(S) o-Terphenyl</i>      |                       |                     | 70.0          | 18.0-148         |               |

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

Method Blank (MB)

(MB) R3962736-1 08/18/23 09:33

| Analyte                 | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C12-C16 Aliphatics      | 1.73               | J            | 1.68            | 5.00            |
| C16-C21 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C21-C34 Aliphatics      | 3.10               | J            | 1.68            | 5.00            |
| (S) 1-Chloro-octadecane | 78.6               |              |                 | 70.0-130        |

Method Blank (MB)

(MB) R3962736-4 08/18/23 10:40

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aromatics      | U                  |              | 2.12            | 5.00            |
| C12-C16 Aromatics      | U                  |              | 2.12            | 5.00            |
| C16-C21 Aromatics      | U                  |              | 2.12            | 5.00            |
| C21-C34 Aromatics      | U                  |              | 2.12            | 5.00            |
| (S) o-Terphenyl        | 80.5               |              |                 | 70.0-130        |
| (S) 2-Fluorobiphenyl   | 91.7               |              |                 | 70.0-130        |
| (S) 2-Bromonaphthalene | 93.6               |              |                 | 70.0-130        |

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

(LCS) R3962736-2 08/18/23 09:55 • (LCSD) R3962736-3 08/18/23 10:17

| Analyte                 | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aliphatics      | 6.65                  | 5.36                | 5.23                 | 80.6          | 78.6           | 70.0-130         |               |                | 2.46     | 20              |
| C12-C16 Aliphatics      | 13.3                  | 11.0                | 10.6                 | 82.7          | 79.7           | 70.0-130         |               |                | 3.70     | 20              |
| C16-C21 Aliphatics      | 20.0                  | 17.3                | 17.1                 | 86.5          | 85.5           | 70.0-130         |               |                | 1.16     | 20              |
| C21-C34 Aliphatics      | 33.3                  | 28.3                | 28.0                 | 85.0          | 84.1           | 70.0-130         |               |                | 1.07     | 20              |
| (S) 1-Chloro-octadecane |                       |                     |                      |               | 74.6           | 74.2             |               |                |          | 70.0-130        |

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

(LCS) R3962736-5 08/18/23 11:09 • (LCSD) R3962736-6 08/18/23 11:31

| Analyte           | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aromatics | 6.65                  | 4.91                | 5.27                 | 73.8          | 79.2           | 70.0-130         |               |                | 7.07     | 20              |
| C12-C16 Aromatics | 20.0                  | 13.3                | 14.1                 | 66.5          | 70.5           | 70.0-130         | J4            |                | 5.84     | 20              |
| C16-C21 Aromatics | 33.3                  | 25.3                | 26.4                 | 76.0          | 79.3           | 70.0-130         |               |                | 4.26     | 20              |
| C21-C34 Aromatics | 53.2                  | 40.6                | 41.7                 | 76.3          | 78.4           | 70.0-130         |               |                | 2.67     | 20              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

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

(LCS) R3962736-5 08/18/23 11:09 • (LCSD) R3962736-6 08/18/23 11:31

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| (S) o-Terphenyl        |                       |                     |                      | 75.6          | 78.0           | 70.0-130         |               |                |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                     |                      | 86.7          | 90.4           | 70.0-130         |               |                |          |                 |
| (S) 2-Bromonaphthalene |                       |                     |                      | 85.7          | 89.7           | 70.0-130         |               |                |          |                 |

L1646535-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646535-09 08/19/23 18:09 • (MS) R3962736-7 08/19/23 18:31 • (MSD) R3962736-8 08/19/23 19:01

| Analyte                 | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C12 Aliphatics      | 6.45                  | U                        | 4.67               | 4.75                | 72.4         | 75.4          | 1        | 70.0-130         |              |               | 1.70     | 20              |
| C12-C16 Aliphatics      | 12.9                  | 1.85                     | 10.1               | 11.4                | 64.0         | 75.8          | 1        | 70.0-130         | J6           |               | 12.1     | 20              |
| C16-C21 Aliphatics      | 19.4                  | 4.08                     | 17.4               | 21.4                | 68.7         | 91.6          | 1        | 70.0-130         | J6           | J3            | 20.6     | 20              |
| C21-C34 Aliphatics      | 32.3                  | 17.6                     | 36.1               | 48.0                | 57.3         | 96.5          | 1        | 70.0-130         | J6           | J3            | 28.3     | 20              |
| (S) 1-Chloro-octadecane |                       |                          |                    |                     | 65.5         | 80.0          |          | 70.0-130         | J2           |               |          |                 |

L1646535-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646535-09 08/19/23 20:52 • (MS) R3962736-10 08/19/23 20:30 • (MSD) R3962736-9 08/19/23 20:08

| Analyte                | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C12 Aromatics      | 6.45                  | U                        | 4.30               | 4.35                | 66.7         | 69.0          | 1        | 70.0-130         | J6           | J6            | 1.16     | 20              |
| C12-C16 Aromatics      | 19.4                  | U                        | 11.8               | 12.2                | 60.8         | 64.6          | 1        | 70.0-130         | J6           | J6            | 3.33     | 20              |
| C16-C21 Aromatics      | 32.3                  | 4.35                     | 25.2               | 28.8                | 64.6         | 77.6          | 1        | 70.0-130         | J6           |               | 13.3     | 20              |
| C21-C34 Aromatics      | 51.6                  | 17.4                     | 52.2               | 67.5                | 67.4         | 99.4          | 1        | 70.0-130         | J6           | J3            | 25.6     | 20              |
| (S) o-Terphenyl        |                       |                          |                    |                     | 65.7         | 73.0          |          | 70.0-130         | J2           |               |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                          |                    |                     | 84.9         | 86.9          |          | 70.0-130         |              |               |          |                 |
| (S) 2-Bromonaphthalene |                       |                          |                    |                     | 87.6         | 89.5          |          | 70.0-130         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3962637-2 08/17/23 04:35

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene             | U                  |              | 0.00230         | 0.00600         |
| Acenaphthene           | U                  |              | 0.00209         | 0.00600         |
| Acenaphthylene         | U                  |              | 0.00216         | 0.00600         |
| Benzo(a)anthracene     | U                  |              | 0.00173         | 0.00600         |
| Benzo(a)pyrene         | U                  |              | 0.00179         | 0.00600         |
| Benzo(b)fluoranthene   | U                  |              | 0.00153         | 0.00600         |
| Benzo(g,h,i)perylene   | U                  |              | 0.00177         | 0.00600         |
| Benzo(k)fluoranthene   | U                  |              | 0.00215         | 0.00600         |
| Chrysene               | U                  |              | 0.00232         | 0.00600         |
| Dibenz(a,h)anthracene  | U                  |              | 0.00172         | 0.00600         |
| Fluoranthene           | U                  |              | 0.00227         | 0.00600         |
| Fluorene               | U                  |              | 0.00205         | 0.00600         |
| Indeno(1,2,3-cd)pyrene | U                  |              | 0.00181         | 0.00600         |
| Naphthalene            | U                  |              | 0.00408         | 0.0200          |
| Phenanthrene           | U                  |              | 0.00231         | 0.00600         |
| Pyrene                 | U                  |              | 0.00200         | 0.00600         |
| 1-Methylnaphthalene    | U                  |              | 0.00449         | 0.0200          |
| 2-Methylnaphthalene    | U                  |              | 0.00427         | 0.0200          |
| 2-Chloronaphthalene    | U                  |              | 0.00466         | 0.0200          |
| (S) p-Terphenyl-d14    | 110                |              |                 | 23.0-120        |
| (S) Nitrobenzene-d5    | 144                |              |                 | 14.0-149        |
| (S) 2-Fluorobiphenyl   | 97.0               |              |                 | 34.0-125        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3962637-1 08/17/23 03:55

| Analyte               | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Anthracene            | 0.0800                | 0.0758              | 94.8          | 50.0-126         |               |
| Acenaphthene          | 0.0800                | 0.0817              | 102           | 50.0-120         |               |
| Acenaphthylene        | 0.0800                | 0.0807              | 101           | 50.0-120         |               |
| Benzo(a)anthracene    | 0.0800                | 0.0714              | 89.3          | 45.0-120         |               |
| Benzo(a)pyrene        | 0.0800                | 0.0569              | 71.1          | 42.0-120         |               |
| Benzo(b)fluoranthene  | 0.0800                | 0.0694              | 86.8          | 42.0-121         |               |
| Benzo(g,h,i)perylene  | 0.0800                | 0.0635              | 79.4          | 45.0-125         |               |
| Benzo(k)fluoranthene  | 0.0800                | 0.0791              | 98.9          | 49.0-125         |               |
| Chrysene              | 0.0800                | 0.0787              | 98.4          | 49.0-122         |               |
| Dibenz(a,h)anthracene | 0.0800                | 0.0629              | 78.6          | 47.0-125         |               |
| Fluoranthene          | 0.0800                | 0.0859              | 107           | 49.0-129         |               |

Laboratory Control Sample (LCS)

(LCS) R3962637-1 08/17/23 03:55

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Fluorene               | 0.0800                | 0.0852              | 107           | 49.0-120         |               |
| Indeno(1,2,3-cd)pyrene | 0.0800                | 0.0632              | 79.0          | 46.0-125         |               |
| Naphthalene            | 0.0800                | 0.0844              | 106           | 50.0-120         |               |
| Phenanthrene           | 0.0800                | 0.0843              | 105           | 47.0-120         |               |
| Pyrene                 | 0.0800                | 0.0842              | 105           | 43.0-123         |               |
| 1-Methylnaphthalene    | 0.0800                | 0.0883              | 110           | 51.0-121         |               |
| 2-Methylnaphthalene    | 0.0800                | 0.0846              | 106           | 50.0-120         |               |
| 2-Chloronaphthalene    | 0.0800                | 0.0810              | 101           | 50.0-120         |               |
| (S) p-Terphenyl-d14    |                       |                     | 106           | 23.0-120         |               |
| (S) Nitrobenzene-d5    |                       |                     | 165           | 14.0-149         | J1            |
| (S) 2-Fluorobiphenyl   |                       |                     | 108           | 34.0-125         |               |

L1644817-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1644817-13 08/17/23 09:29 • (MS) R3962637-3 08/17/23 09:49 • (MSD) R3962637-4 08/17/23 10:08

| Analyte                | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Anthracene             | 0.102                          | U                                 | 0.0557                   | 0.0528                       | 54.7         | 51.4          | 1        | 10.0-145         |              |               | 5.24     | 30              |
| Acenaphthene           | 0.102                          | U                                 | 0.0576                   | 0.0520                       | 56.6         | 50.6          | 1        | 14.0-127         |              |               | 10.1     | 27              |
| Acenaphthylene         | 0.102                          | U                                 | 0.0620                   | 0.0541                       | 60.9         | 52.6          | 1        | 21.0-124         |              |               | 13.6     | 25              |
| Benzo(a)anthracene     | 0.102                          | U                                 | 0.0594                   | 0.0615                       | 58.4         | 59.8          | 1        | 10.0-139         |              |               | 3.42     | 30              |
| Benzo(a)pyrene         | 0.102                          | U                                 | 0.0588                   | 0.0629                       | 57.7         | 61.2          | 1        | 10.0-141         |              |               | 6.79     | 31              |
| Benzo(b)fluoranthene   | 0.102                          | U                                 | 0.0487                   | 0.0520                       | 47.8         | 50.6          | 1        | 10.0-140         |              |               | 6.67     | 36              |
| Benzo(g,h,i)perylene   | 0.102                          | U                                 | 0.0515                   | 0.0551                       | 50.6         | 53.6          | 1        | 10.0-140         |              |               | 6.78     | 33              |
| Benzo(k)fluoranthene   | 0.102                          | U                                 | 0.0666                   | 0.0682                       | 65.5         | 66.3          | 1        | 10.0-137         |              |               | 2.30     | 31              |
| Chrysene               | 0.102                          | U                                 | 0.0779                   | 0.0803                       | 76.5         | 78.1          | 1        | 10.0-145         |              |               | 3.10     | 30              |
| Dibenz(a,h)anthracene  | 0.102                          | U                                 | 0.0577                   | 0.0589                       | 56.7         | 57.3          | 1        | 10.0-132         |              |               | 1.99     | 31              |
| Fluoranthene           | 0.102                          | U                                 | 0.0537                   | 0.0561                       | 52.8         | 54.5          | 1        | 10.0-153         |              |               | 4.24     | 33              |
| Fluorene               | 0.102                          | U                                 | 0.0608                   | 0.0558                       | 59.8         | 54.3          | 1        | 11.0-130         |              |               | 8.64     | 29              |
| Indeno(1,2,3-cd)pyrene | 0.102                          | U                                 | 0.0499                   | 0.0546                       | 49.0         | 53.1          | 1        | 10.0-137         |              |               | 9.15     | 32              |
| Naphthalene            | 0.102                          | U                                 | 0.0926                   | 0.0593                       | 91.0         | 57.7          | 1        | 10.0-135         |              | J3            | 43.9     | 27              |
| Phenanthrene           | 0.102                          | U                                 | 0.0562                   | 0.0573                       | 55.2         | 55.8          | 1        | 10.0-144         |              |               | 2.05     | 31              |
| Pyrene                 | 0.102                          | U                                 | 0.0616                   | 0.0646                       | 60.5         | 62.8          | 1        | 10.0-148         |              |               | 4.71     | 35              |
| 1-Methylnaphthalene    | 0.102                          | U                                 | 0.0878                   | 0.0572                       | 86.3         | 55.7          | 1        | 10.0-142         |              | J3            | 42.2     | 28              |
| 2-Methylnaphthalene    | 0.102                          | 0.0108                            | 0.118                    | 0.0601                       | 105          | 47.9          | 1        | 10.0-137         |              | J3            | 64.7     | 28              |
| 2-Chloronaphthalene    | 0.102                          | U                                 | 0.0624                   | 0.0548                       | 61.3         | 53.3          | 1        | 29.0-120         |              |               | 13.0     | 24              |
| (S) p-Terphenyl-d14    |                                |                                   |                          |                              | 60.0         | 72.8          |          | 23.0-120         |              |               |          |                 |
| (S) Nitrobenzene-d5    |                                |                                   |                          |                              | 108          | 125           |          | 14.0-149         |              |               |          |                 |
| (S) 2-Fluorobiphenyl   |                                |                                   |                          |                              | 49.5         | 47.5          |          | 34.0-125         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCGC4 • File ID: 0816\_03

08/16/23 09:29

| Sample ID                      | File ID  | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|----------|---------------------|---------------------|
|                                |          | Response            | Response            |
| Standard                       | 0816_03  | 3049466             | 1372359             |
| Upper Limit                    |          | 6098932             | 2744718             |
| Lower Limit                    |          | 1524733             | 686180              |
| LCS R3962322-1 WG2115004 1x    | 0816_04A | 3479037             | 1544307             |
| BLANK R3962322-2 WG2115004 25x | 0816_06A | 2991168             | 1376123             |
| L1646084-01 WG2115004 25x      | 0816_15  | 3004600             | 1363256             |
| L1646084-02 WG2115004 25x      | 0816_16  | 2927510             | 1319172             |
| L1646084-03 WG2115004 25x      | 0816_17  | 3205865             | 1428447             |
| L1646084-04 WG2115004 27.3x    | 0816_18  | 3954043             | 1477881             |
| L1646084-05 WG2115004 25.3x    | 0816_19  | 3659720             | 1369686             |
| L1646084-06 WG2115004 25x      | 0816_20  | 4208201             | 1516335             |
| L1646084-10 WG2115004 25x      | 0816_24  | 3964102             | 1404524             |
| L1646084-11 WG2115004 25x      | 0816_25  | 3651941             | 1315098             |
| L1646084-12 WG2115004 25x      | 0816_26  | 3723181             | 1415747             |
| L1646084-15 WG2115004 25x      | 0816_27  | 3781103             | 1357534             |
| L1646084-16 WG2115004 25x      | 0816_28  | 3479147             | 1307670             |
| L1646084-17 WG2115004 25x      | 0816_29  | 3794685             | 1478612             |
| L1646084-14 WG2115004 100x     | 0816_32  | 3698413             | 1278289             |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Instrument: VOCGC15 • File ID: 0816\_31

08/17/23 00:08

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0816_31 | 265797100           | 51742               |
| Upper Limit                    |         | 531594200           | 103484              |
| Lower Limit                    |         | 132898600           | 25871               |
| LCS R3962397-1 WG2115568 1x    | 0816_32 | 307033600           | 39680               |
| LCSD R3962397-2 WG2115568 1x   | 0816_33 | 291456600           | 135760              |
| BLANK R3962397-3 WG2115568 25x | 0816_36 | 302884000           | 66079               |
| L1646084-20 WG2115568 25x      | 0816_39 | 272987200           | 81513               |
| L1646084-21 WG2115568 25x      | 0816_40 | 260638100           | 41294               |
| L1646084-22 WG2115568 25x      | 0816_41 | 328797500           | 94856               |
| L1646084-24 WG2115568 25x      | 0816_42 | 314866100           | 74190               |
| L1646084-25 WG2115568 25x      | 0816_43 | 290457100           | 124003              |
| L1646084-26 WG2115568 25x      | 0816_44 | 281217400           | 39569               |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC15 • File ID: 0816\_31

08/17/23 00:08

| Sample ID                    | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|------------------------------|---------|---------------------------------|---------------------------------|
| L1646084-27 WG2115568 25x    | 0816_45 | 297134100                       | 61890                           |
| L1646084-23 WG2115568 100x   | 0816_46 | 303194500                       | 139001                          |
| MS R3962397-4 WG2115568 27x  | 0816_58 | 335400100                       | 151764                          |
| MSD R3962397-5 WG2115568 27x | 0816_59 | 308862700                       | 34872                           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

## Instrument: VOCGC17 • File ID: 0818\_03

08/18/23 09:51

| Sample ID                      | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|----------|---------------------------------|---------------------------------|
| Standard                       | 0818_03  | 269091700                       | 269091700                       |
| Upper Limit                    |          | 538183400                       | 538183400                       |
| Lower Limit                    |          | 134545900                       | 134545900                       |
| LCS R3962548-1 WG2116530 1x    | 0818_04  | 268952300                       | 268952300                       |
| LCS R3962549-1 WG2116631 1x    | 0818_04A | 268952300                       | 268952300                       |
| BLANK R3962548-2 WG2116530 25x | 0818_07  | 243920600                       | 243920600                       |
| BLANK R3962549-2 WG2116631 25x | 0818_07A | 243920600                       | 243920600                       |
| L1646084-19 WG2116631 25x      | 0818_09  | 214422100                       | 214422100                       |
| L1646084-08 WG2116530 25x      | 0818_10  | 246889900                       | 246889900                       |
| L1646084-09 WG2116530 25x      | 0818_11  | 260209200                       | 260209200                       |
| L1646084-07 WG2116530 348x     | 0818_12  | 253225800                       | 253225800                       |
| L1646084-13 WG2116530 500x     | 0818_13  | 245643500                       | 245643500                       |
| L1646084-18 WG2116530 505x     | 0818_14  | 248539500                       | 248539500                       |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCGC12 • File ID: 0816\_03

08/16/23 10:27

| Sample ID                     | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|----------|---------------------------------|---------------------------------|
| Standard                      | 0816_03  | 976313900                       | 945568600                       |
| Upper Limit                   |          | 1952628000                      | 1891137000                      |
| Lower Limit                   |          | 488157000                       | 472784300                       |
| LCS R3962172-1 WG2115046 1x   | 0816_03U | 976313900                       | 945568600                       |
| LCSD R3962172-2 WG2115046 1x  | 0816_04  | 957651700                       | 922295200                       |
| BLANK R3962172-3 WG2115046 1x | 0816_06  | 812415700                       | 805042900                       |
| L1646084-28 WG2115046 1x      | 0816_07  | 804473200                       | 795427100                       |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

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

Instrument: VOCMS39 • File ID: 0815\_28-1

08/15/23 20:23

| Sample ID                     | File ID    | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|-------------------------------|------------|--------------------|-----------------------|-----------------------------|
|                               |            | Response           | Response              | Response                    |
| Standard                      | 0815_28-1  | 402981.90          | 122088.50             | 139638.50                   |
| Upper Limit                   |            | 805964             | 244177                | 279277                      |
| Lower Limit                   |            | 201491             | 61044                 | 69819                       |
| LCS R3962427-1 WG2114768 1x   | 0815_28LCS | 402981.90          | 122088.50             | 139638.50                   |
| LCSD R3962427-2 WG2114768 1x  | 0815_29    | 398424.90          | 121447.70             | 140203.40                   |
| BLANK R3962427-3 WG2114768 1x | 0815_33    | 456449.40          | 138378.80             | 145047.30                   |
| L1646084-01 WG2114768 1x      | 0815_34    | 489461.30          | 155607.70             | 155276.20                   |
| L1646084-02 WG2114768 1x      | 0815_35    | 534653.60          | 158377.60             | 169975.30                   |
| L1646084-03 WG2114768 1.02x   | 0815_36    | 440868.70          | 126652.30             | 134478.30                   |
| L1646084-04 WG2114768 1.05x   | 0815_37    | 436628.30          | 131311.50             | 135752.40                   |
| L1646084-05 WG2114768 1x      | 0815_38    | 443579.50          | 135096.10             | 140415.70                   |
| L1646084-06 WG2114768 1x      | 0815_39    | 460537.80          | 135758.90             | 141951.30                   |
| L1646084-07 WG2114768 1x      | 0815_40    | 454076.90          | 177285.80             | 144061.60                   |
| L1646084-08 WG2114768 1x      | 0815_41    | 472829.50          | 152218.40             | 143843.40                   |
| L1646084-09 WG2114768 1x      | 0815_42    | 498006             | 150708.40             | 151842.70                   |
| L1646084-10 WG2114768 1x      | 0815_43    | 504344             | 159607.70             | 154630.20                   |
| L1646084-11 WG2114768 1x      | 0815_44    | 489942.50          | 154678.10             | 152501.50                   |
| L1646084-12 WG2114768 1x      | 0815_45    | 488992.90          | 146579.90             | 155105.80                   |
| L1646084-15 WG2114768 1x      | 0815_46    | 468432.40          | 139130.10             | 145932.80                   |
| L1646084-16 WG2114768 1x      | 0815_47    | 467000             | 138163.80             | 144189.20                   |
| L1646084-17 WG2114768 1x      | 0815_48    | 446833.30          | 156620.30             | 146433.30                   |
| L1646084-18 WG2114768 1x      | 0815_49    | 518999.90          | 189319.30             | 160085.50                   |
| L1646084-20 WG2114768 1x      | 0815_51    | 492234             | 161410.80             | 149919.90                   |
| L1646084-13 WG2114768 8x      | 0815_52    | 469690.70          | 153949.20             | 141609.50                   |
| L1646084-14 WG2114768 8x      | 0815_53    | 474787             | 141132.80             | 153970.40                   |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Instrument: VOCMS40 • File ID: 0818\_02

08/18/23 09:29

| Sample ID                    | File ID    | 8260-FLUOROBENZENE | 8260-CHLOROBENZENE-D5 | 8260-1,4-DICHLOROBENZENE-D4 |
|------------------------------|------------|--------------------|-----------------------|-----------------------------|
|                              |            | Response           | Response              | Response                    |
| Standard                     | 0818_02    | 891618.70          | 411556.60             | 361127.30                   |
| Upper Limit                  |            | 1783237            | 823113                | 722255                      |
| Lower Limit                  |            | 445809             | 205778                | 180564                      |
| LCS R3962669-1 WG2116697 1x  | 0818_02LCS | 891618.70          | 411556.60             | 361127.30                   |
| LCSD R3962669-2 WG2116697 1x | 0818_03    | 873483.70          | 408559                | 340977.70                   |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS40 • File ID: 0818\_02

08/18/23 09:29

| Sample ID                     | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|---------|--------------------------------|-----------------------------------|---|
| BLANK R3962669-3 WG2116697 1x | 0818_07 | 845358.20                      | 381861                            | 324045                                  |
| L1646084-05 WG2116697 1x      | 0818_08 | 878435.10                      | 400900.90                         | 338441.20                               |
| L1646084-12 WG2116697 1x      | 0818_09 | 919309.10                      | 413666.10                         | 345077.30                               |
| L1646084-15 WG2116697 1x      | 0818_10 | 919638.60                      | 412812.90                         | 343750.60                               |
| L1646084-16 WG2116697 1x      | 0818_11 | 884525                         | 392621.90                         | 321040.80                               |
| L1646084-19 WG2116697 1x      | 0818_12 | 911954.70                      | 411990.70                         | 341203.70                               |
| L1646084-07 WG2116697 10x     | 0818_13 | 902635.50                      | 407727.20                         | 356779                                  |
| L1646084-13 WG2116697 80x     | 0818_14 | 844494.80                      | 388492.20                         | 335882.60                               |
| L1646084-18 WG2116697 20x     | 0818_15 | 867908.50                      | 402171.60                         | 349031                                  |
| L1646084-20 WG2116697 10x     | 0818_16 | 910486.30                      | 414076.90                         | 352298.70                               |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Instrument: VOCMS42 • File ID: 0818\_03-1

08/18/23 09:44

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0818_03-1  | 583169.90                      | 272006.70                         | 255370.90                               |
| Upper Limit                   |            | 1166340                        | 544013                            | 510742                                  |
| Lower Limit                   |            | 291585                         | 136003                            | 127685                                  |
| LCS R3962545-1 WG2116565 1x   | 0818_03LCS | 583169.90                      | 272006.70                         | 255370.90                               |
| BLANK R3962545-2 WG2116565 1x | 0818_07    | 605418.50                      | 282056.90                         | 265512.80                               |
| L1646084-24 WG2116565 8x      | 0818_11    | 556206.60                      | 261729.10                         | 246415.90                               |

## Instrument: VOCMS56 • File ID: 0816\_02-1

08/16/23 09:04

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0816_02-1  | 766432.40                      | 356950.10                         | 346804.80                               |
| Upper Limit                   |            | 1532865                        | 713900                            | 693610                                  |
| Lower Limit                   |            | 383216                         | 178475                            | 173402                                  |
| LCS R3962362-1 WG2115218 1x   | 0816_02LCS | 766432.40                      | 356950.10                         | 346804.80                               |
| LCSD R3962362-2 WG2115218 1x  | 0816_03    | 808302.60                      | 376148.40                         | 346644.90                               |
| BLANK R3962362-3 WG2115218 1x | 0816_07    | 779848.60                      | 358307.50                         | 314067.50                               |

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS56 • File ID: 0816\_02-1

08/16/23 09:04

| Sample ID                   | File ID | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-----------------------------|---------|--------------------------------|-----------------------------------|---|
| L1646084-21 WG2115218 1x    | 0816_10 | 831615.10                      | 362642.70                         | 331896.90                               |
| L1646084-22 WG2115218 1x    | 0816_11 | 899068.40                      | 388881.90                         | 363920.90                               |
| L1646084-24 WG2115218 1x    | 0816_12 | 818222.50                      | 349138                            | 333381.30                               |
| L1646084-25 WG2115218 1x    | 0816_13 | 925604                         | 403527.10                         | 375939.10                               |
| L1646084-26 WG2115218 1.03x | 0816_14 | 906925.40                      | 407338                            | 370507.70                               |
| L1646084-27 WG2115218 1x    | 0816_15 | 904798.60                      | 391608.90                         | 356675.30                               |
| L1646084-23 WG2115218 8x    | 0816_18 | 930587.40                      | 407618.30                         | 381341.80                               |
| MS R3962362-4 WG2115218 8x  | 0816_28 | 866229.40                      | 393867.10                         | 354636.90                               |
| MSD R3962362-5 WG2115218 8x | 0816_29 | 946134.80                      | 427020                            | 386572.50                               |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS26 • File ID: 0815\_29-2

08/15/23 20:15

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0815_29-2   | 413875                         | 188137                            | 168792                                  |
| Upper Limit                   |             | 827750                         | 376274                            | 337584                                  |
| Lower Limit                   |             | 206938                         | 94069                             | 84396                                   |
| LCS R3961334-1 WG2114625 1x   | 0815_29LCSB | 413875                         | 188137                            | 168792                                  |
| LCSD R3961334-2 WG2114625 1x  | 0815_30B    | 415487                         | 192261                            | 166612                                  |
| BLANK R3961334-3 WG2114625 1x | 0815_33B    | 404516                         | 179191                            | 155110                                  |
| L1646084-28 WG2114625 1x      | 0815_43     | 388837                         | 172658                            | 152549                                  |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

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

Instrument: BNAMS22 • File ID: 0817\_03

08/17/23 03:22

| Sample ID                     | File ID | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|---------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0817_03 | 31621                      | 19248                        | 31613                        | 19539                    | 12942                    |
| Upper Limit                   |         | 63242                      | 38496                        | 63226                        | 39078                    | 25884                    |
| Lower Limit                   |         | 15811                      | 9624                         | 15807                        | 9770                     | 6471                     |
| LCS R3962637-1 WG2114852 1x   | 0817_04 | 25732                      | 16163                        | 25795                        | 18139                    | 12518                    |
| BLANK R3962637-2 WG2114852 1x | 0817_06 | 24624                      | 15543                        | 24757                        | 15283                    | 10758                    |
| L1646084-02 WG2114852 1x      | 0817_10 | 24393                      | 15016                        | 23722                        | 14188                    | 9895                     |
| L1646084-04 WG2114852 1x      | 0817_11 | 24501                      | 15372                        | 25469                        | 14798                    | 10576                    |
| MS R3962637-3 WG2114852 1x    | 0817_22 | 22484                      | 14557                        | 23131                        | 14048                    | 9896                     |
| MSD R3962637-4 WG2114852 1x   | 0817_23 | 22373                      | 14258                        | 22601                        | 13787                    | 9536                     |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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   |
|-----------|---|
| B         | The same analyte is found in the associated blank.  |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                   |
| J1        | Surrogate recovery limits have been exceeded; values are outside upper control limits.                |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits.                |
| J3        | The associated batch QC was outside the established quality control range for precision.              |
| J4        | The associated batch QC was outside the established quality control range for accuracy.               |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**145751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Jarney**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Jarney**

**Rush?** (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N \_\_\_ Y

\_\_\_ Same Day \_\_\_ Five Day  
\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 Three Day

Date Results Needed

No. of Cntrs

| Sample ID                               | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|---|-----------|----------|-------|---------|------|--------------|
| <del>A4-FL-12</del> <b>A3-FL-12</b>     | G         | SS       | 12    | 8/14/23 | 0415 | 3            |
| A1-FL-14                                | G         | SS       | 14    | 8/14/23 | 0445 | 5            |
| A2-FL-14                                | G         | SS       | 14    | 8/14/23 | 0515 | 3            |
| <del>A2-SW2-12</del> <b>A2-SW1-12</b>   | G         | SS       | 12    | 8/14/23 | 0520 | 5            |
| <del>A3-FL-14</del> <b>A2-FL-14-ADD</b> | G         | SS       | 14    | 8/14/23 | 0550 | 3            |
| <del>A4-SW1-13</del> <b>A3-SW1-13</b>   | G         | SS       | 13    | 8/14/23 | 0600 | 3            |
| SP-SI-7                                 | G         | SS       | -     | 8/14/23 | 0610 | 3            |
| B1-FL-15                                | G         | SS       | 15    | 8/14/23 | 0640 | 3            |
| B2-FL-13                                | G         | SS       | 13    | 8/14/23 | 0650 | 3            |
| <del>B3-FL-15</del> <b>B2-FL-15-ADD</b> | G         | SS       | 15    | 8/14/23 | 0700 | 3            |

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

Remarks:

Samples returned via:  
\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **60841 8344 8758**

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:  NP  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)

**Paul M. Jarney**

Date:

8/14/23

Time:

1600

Received by: (Signature)

**FedEx**

Trip Blank Received: Yes  No

**2** (HCL MeOH TBR)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C **2-8 to 2-8** Bottles Received: **89**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

**Hana Muechling**

Date:

8-15-23

Time:

0900

Hold:

Condition:

NCF /  OK

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



**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.paceabs.com/hubs/pas-standard-terms.pdf>

SDG #

**L1646084**

Table

**E050**

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **7/28/23 CAW**

Shipped Via: **FedEX Standard**

Remarks Sample # (lab only)

-01  
-02  
-03  
-04  
-05  
-06  
-07  
-08  
-09  
-10

Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Pres  
 Chk

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
 Collected: **Westport, WA**

Please Circle:  
 MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Jarney**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Jarney*

**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

No.  
 of  
 Cntrs

Immediately  
 Packed on Ice N  Y  X

| Sample ID                               | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|---|-----------|----------|-------|---------|------|--------------|
| <del>B4-FL-15</del> <b>B3-FL-15</b> G   |           | SS       | 15    | 8/14/23 | 0705 | 3            |
| <del>B5-FL-15</del> <b>B4-FL-15</b> G   |           | SS       | 15    | 8/14/23 | 0715 | 3            |
| <del>A5-SW4-12</del> <b>A4-SW4-12</b>   |           | SS       | 12    | 8/14/23 | 0725 | 5            |
| B5-SW4-12 G                             |           | SS       | 12    | 8/14/23 | 0755 | 3            |
| <del>C4-FL-15</del> <b>C3-FL-15</b> G   |           | SS       | 15    | 8/14/23 | 0810 | 3            |
| <del>C5-FL-15</del> <b>C4-FL-15</b> G   |           | SS       | 15    | 8/14/23 | 0820 | 3            |
| B1-SW2-12 G                             |           | SS       | 12    | 8/14/23 | 0830 | 5            |
| SP-SI-4 G                               |           | SS       | -     | 8/14/23 | 0835 | 3            |
| <del>C3-FL-15</del> <b>C2-FL-15-ADD</b> |           | SS       | 15    | 8/14/23 | 0915 | 3            |
| C2-FL-15 G                              |           | SS       | 15    | 8/14/23 | 0940 | 3            |

| Analysis / Container / Preservative |  |
|-------------------------------------|--|
| EPH WA 4ozAmb-NoPres                |  |
| NWTPHDXNOSGT 4ozClr-NoPres          |  |
| NWTPHGX 40mlAmb/MeOH10ml/Syr        |  |
| Pb 6010 2ozClr-NoPres               |  |
| SV8270PAHSIM 4ozClr-NoPres          |  |
| Total Solids 4ozClr-NoPres          |  |
| V8260BTEX 40mlAmb/MeOH10ml/Syr      |  |
| VPH WA 40mlAmb/MeOH10ml/Syr         |  |

Chain of Custody Page 2 of 3

**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 # **L1646084**

Table #

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **7/25/23 CAM**

Shipped Via: **FedEx Standard**

Remarks | Sample # (lab only)

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

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **6841 8344 8758**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | <input type="checkbox"/> NP <input checked="" type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| Correct bottles used:         | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| If Applicable                 |   |
| VOA Zero Headspace:           | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N  |

Relinquished by: (Signature)  
*Paul M. Jarney*

Date: **8/14/23**  
 Time: **1600**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes  No  
 HCl/MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: (Signature)

Temp: \_\_\_\_\_ °C  
 Bottles Received: **2810=28 89**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received for lab by: (Signature)  
**Hanna Mweching**

Date: **8.15.23**  
 Time: **0900**

Hold: \_\_\_\_\_  
 Condition: **NCF / OK**

Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Janney**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Janney**

**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

No. of  
Cntrs

Immediately Packed on Ice N  Y  X

Analysis / Container / Preservative

Chain of Custody Page 3 of 3



**MT JULIET, TN**

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SDG # **L646084**

Table #

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **7/25/23 CAM**

Shipped Via: **FedEX Standard**

Remarks | Sample # (lab only)

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| C1-FL-15  | G         | SS       | 15    | 8/14/23 | 0950 | 3            |
| C1-SW2-12 | G         | SS       | 12    | 8/14/23 | 1020 | 3            |
| SP-SI-9   | G         | SS       | -     | 8/14/23 | 1030 | 3            |
| D1-FL-15  | G         | SS       | 15    | 8/14/23 | 1225 | 3            |
| D2-FL-15  | G         | SS       | 15    | 8/14/23 | 1245 | 3            |
| D3-FL-15  | G         | SS       | 15    | 8/14/23 | 1245 | 3            |
| Dup-02    | G         | SS       | -     | 8/14/23 | -    | 3            |
| Dup-03    | G         | SS       | -     | 8/14/23 | -    | 3            |
| TB-01     | -         | W-SS     | -     | 8/14/23 | -    | 2            |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |

|                      |                            |                              |                       |                            |                            |                                |                             |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
| EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |

|         |                     |
|---------|---------------------|
| Remarks | Sample # (lab only) |
|         | -21                 |
|         | -22                 |
|         | -23                 |
|         | -24                 |
|         | -25                 |
|         | -26                 |
|         | -27                 |
|         | -28                 |

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

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **6841 8344 8758**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

**Sample Receipt Checklist**  
 COC Seal Present/Intact:  NP  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)  
**Paul M. Janney**

Date: **8/14/23**

Time: **1600**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes  No  
 HCL/MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **28.0 = 2.8** °C  
 Bottles Received: **89**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)  
**Hawa Mwechingi**

Date: **08.15.23** Time: **0900**

Hold: Condition: **NCF / OK**



## Stantec- Bellevue, WA

Sample Delivery Group: L1647515  
Samples Received: 08/18/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

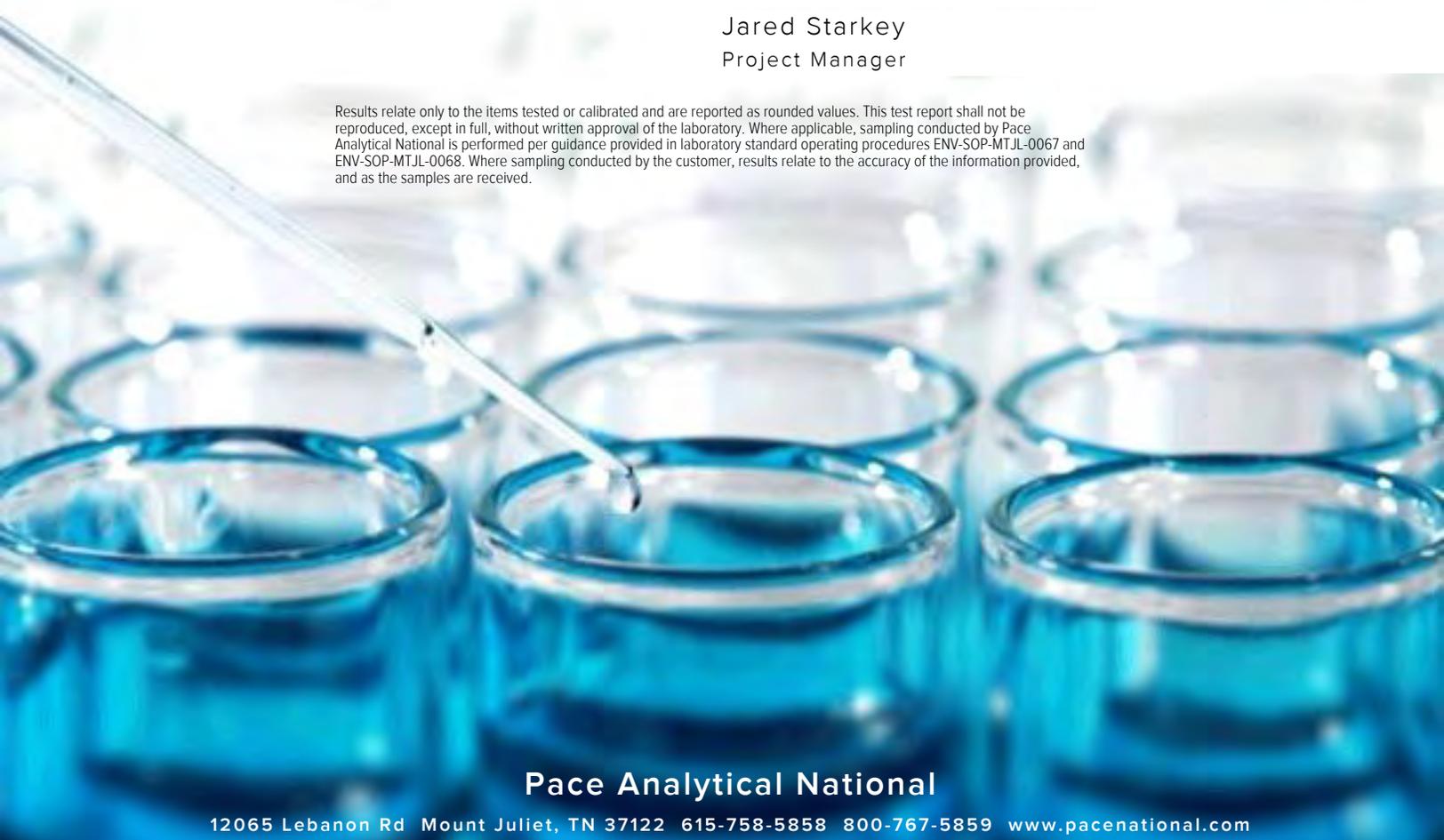
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## SP-SI-10 L1647515-01 Solid

Collected by Paul Janney      Collected date/time 08/15/23 06:30      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117067 | 1        | 08/19/23 10:22        | 08/19/23 10:39     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25.3     | 08/15/23 06:30        | 08/19/23 23:17     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117303 | 1.01     | 08/15/23 06:30        | 08/19/23 18:31     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117946 | 10       | 08/15/23 06:30        | 08/21/23 13:17     | JAH     | Mt. Juliet, TN |



## C5-SW4-6 L1647515-02 Solid

Collected by Paul Janney      Collected date/time 08/15/23 06:45      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2119788 | 2000     | 08/15/23 06:45        | 08/24/23 05:05     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117303 | 8        | 08/15/23 06:45        | 08/19/23 19:08     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117946 | 800      | 08/15/23 06:45        | 08/21/23 13:36     | JAH     | Mt. Juliet, TN |

## D5-SW4-10 L1647515-03 Solid

Collected by Paul Janney      Collected date/time 08/15/23 06:55      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 06:55        | 08/19/23 23:36     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117303 | 1        | 08/15/23 06:55        | 08/19/23 18:50     | DWR     | Mt. Juliet, TN |

## D1-SW2-12 L1647515-04 Solid

Collected by Paul Janney      Collected date/time 08/15/23 07:25      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2119788 | 25       | 08/15/23 07:25        | 08/24/23 03:15     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 07:25        | 08/19/23 20:08     | KSD     | Mt. Juliet, TN |

## F5-SW4-13 L1647515-05 Solid

Collected by Paul Janney      Collected date/time 08/15/23 13:40      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 13:40        | 08/20/23 00:13     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 13:40        | 08/19/23 20:28     | KSD     | Mt. Juliet, TN |

## F5-SW4-13 L1647515-06 Solid

Collected by Paul Janney      Collected date/time 08/15/23 13:50      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 13:50        | 08/20/23 00:31     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 13:50        | 08/19/23 20:47     | KSD     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## F5-SW3-12 L1647515-07 Solid

Collected by Paul Janney      Collected date/time 08/15/23 14:05      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D                       | WG2117305 | 1        | 08/19/23 15:45        | 08/23/23 13:10     | ZSA     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA    | WG2120661 | 1        | 08/15/23 14:05        | 08/29/23 07:53     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 14:05        | 08/20/23 00:49     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 14:05        | 08/19/23 21:06     | KSD     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2118724 | 1        | 08/22/23 07:00        | 08/23/23 17:50     | DMG     | Mt. Juliet, TN |
| TPH by Method EPH                                  | WG2118724 | 1        | 08/22/23 07:00        | 08/23/23 23:31     | DMG     | Mt. Juliet, TN |

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

## SP-SI-11 L1647515-08 Solid

Collected by Paul Janney      Collected date/time 08/16/23 07:00      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2119788 | 500      | 08/16/23 07:00        | 08/24/23 04:47     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 8        | 08/16/23 07:00        | 08/19/23 22:22     | KSD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2118985 | 80       | 08/16/23 07:00        | 08/23/23 11:36     | ACG     | Mt. Juliet, TN |

## SP-SI-12 L1647515-09 Solid

Collected by Paul Janney      Collected date/time 08/16/23 07:05      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 100      | 08/16/23 07:05        | 08/20/23 02:21     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 8        | 08/16/23 07:05        | 08/19/23 22:41     | KSD     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2118985 | 80       | 08/16/23 07:05        | 08/23/23 11:55     | ACG     | Mt. Juliet, TN |

## DUP-04 L1647515-10 Solid

Collected by Paul Janney      Collected date/time 08/15/23 00:00      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 00:00        | 08/20/23 01:08     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 00:00        | 08/19/23 21:25     | KSD     | Mt. Juliet, TN |

## DUP-05 L1647515-11 Solid

Collected by Paul Janney      Collected date/time 08/15/23 00:00      Received date/time 08/18/23 08:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2117068 | 1        | 08/19/23 12:00        | 08/19/23 12:17     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117360 | 25       | 08/15/23 00:00        | 08/20/23 01:26     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117318 | 1        | 08/15/23 00:00        | 08/19/23 21:44     | KSD     | Mt. Juliet, TN |

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

## Report Revision History

Level II Report - Version 1: 08/30/23 14:10



## Project Comments

ID Corrections

## Volatile Organic Compounds (GC) by Method NWTPHGX

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID   |
|-----------|-------------------------------|-----------------|
| WG2117360 | Gasoline Range Organics-NWTPH | L1647515-05, 07 |

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

Surrogate recovery limits have been exceeded; values are outside upper control limits.

| Batch     | Analyte              | Lab Sample ID |
|-----------|----------------------|---------------|
| WG2117303 | 4-Bromofluorobenzene | L1647515-01   |

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte    | Lab Sample ID |
|-----------|------------|---------------|
| WG2117303 | Toluene-d8 | L1647515-02   |

## TPH by Method EPH

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte             | Lab Sample ID |
|-----------|---------------------|---------------|
| WG2118724 | 1-Chloro-octadecane | L1647515-07   |
| WG2118724 | o-Terphenyl         | L1647515-07   |

The same analyte is found in the associated blank.

| Batch     | Analyte            | Lab Sample ID |
|-----------|--------------------|---------------|
| WG2118724 | C21-C34 Aliphatics | L1647515-07   |

# CASE NARRATIVE

## TPH by Method EPH

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The associated batch QC was below the established quality control range for accuracy.

| Batch     | Lab Sample ID                                       | Analytes          |
|-----------|---|-------------------|
| WG2118724 | (LCS) R3964773-5, (LCSD)<br>R3964773-6, L1647515-07 | C12-C16 Aromatics |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch     | Lab Sample ID   | Analytes                                 |
|-----------|---|--|
| WG2118724 | (MS) R3965378-1, (MS) R3965378-3,<br>(MSD) R3965378-4 | C12-C16 Aliphatics and C12-C16 Aromatics |

The associated batch QC was outside the established quality control range for precision.

| Batch     | Lab Sample ID    | Analytes           |
|-----------|------------------|--------------------|
| WG2118724 | (MSD) R3965378-2 | C16-C21 Aliphatics |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.0   |           | 1        | 08/19/2023 10:39 | <a href="#">WG2117067</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 250          |           | 1.28      | 3.79      | 25.3     | 08/19/2023 23:17 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111          |           |           | 77.0-120  |          | 08/19/2023 23:17 | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00575      |           | 0.000707  | 0.00151   | 1.01     | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| Toluene                   | 0.0277       |           | 0.00196   | 0.00756   | 1.01     | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| Ethylbenzene              | 0.0410       |           | 0.00111   | 0.00379   | 1.01     | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| Total Xylenes             | 11.3         |           | 0.0132    | 0.0975    | 10       | 08/21/2023 13:17 | <a href="#">WG2117946</a> |
| (S) Toluene-d8            | 122          |           |           | 75.0-131  |          | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/21/2023 13:17 | <a href="#">WG2117946</a> |
| (S) 4-Bromofluorobenzene  | 153          | J1        |           | 67.0-138  |          | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 08/21/2023 13:17 | <a href="#">WG2117946</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 08/19/2023 18:31 | <a href="#">WG2117303</a> |
| (S) 1,2-Dichloroethane-d4 | 109          |           |           | 70.0-130  |          | 08/21/2023 13:17 | <a href="#">WG2117946</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.3   |           | 1        | 08/19/2023 12:17     | <a href="#">WG2117068</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1100               |           | 74.7            | 220             | 2000     | 08/24/2023 05:05     | <a href="#">WG2119788</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 113                |           |                 | 77.0-120        |          | 08/24/2023 05:05     | <a href="#">WG2119788</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) mg/kg | Qualifier          | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|--------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 5.80               |                    | 0.00412         | 0.00881         | 8        | 08/19/2023 19:08     | <a href="#">WG2117303</a> |
| Toluene                   | 13.2               |                    | 0.0115          | 0.0441          | 8        | 08/19/2023 19:08     | <a href="#">WG2117303</a> |
| Ethylbenzene              | 113                |                    | 0.650           | 2.20            | 800      | 08/21/2023 13:36     | <a href="#">WG2117946</a> |
| Total Xylenes             | 1160               |                    | 0.775           | 5.73            | 800      | 08/21/2023 13:36     | <a href="#">WG2117946</a> |
| (S) Toluene-d8            | 74.8               | <a href="#">J2</a> |                 | 75.0-131        |          | 08/19/2023 19:08     | <a href="#">WG2117303</a> |
| (S) Toluene-d8            | 106                |                    |                 | 75.0-131        |          | 08/21/2023 13:36     | <a href="#">WG2117946</a> |
| (S) 4-Bromofluorobenzene  | 81.7               |                    |                 | 67.0-138        |          | 08/19/2023 19:08     | <a href="#">WG2117303</a> |
| (S) 4-Bromofluorobenzene  | 97.9               |                    |                 | 67.0-138        |          | 08/21/2023 13:36     | <a href="#">WG2117946</a> |
| (S) 1,2-Dichloroethane-d4 | 92.0               |                    |                 | 70.0-130        |          | 08/19/2023 19:08     | <a href="#">WG2117303</a> |
| (S) 1,2-Dichloroethane-d4 | 108                |                    |                 | 70.0-130        |          | 08/21/2023 13:36     | <a href="#">WG2117946</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.0   |           | 1        | 08/19/2023 12:17     | <a href="#">WG2117068</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 140                |           | 0.939           | 2.77            | 25       | 08/19/2023 23:36     | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 112                |           |                 | 77.0-120        |          | 08/19/2023 23:36     | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.0839             |           | 0.000517        | 0.00111         | 1        | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| Toluene                   | 0.482              |           | 0.00144         | 0.00554         | 1        | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| Ethylbenzene              | 0.696              |           | 0.000816        | 0.00277         | 1        | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| Total Xylenes             | 5.77               |           | 0.000974        | 0.00720         | 1        | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| (S) Toluene-d8            | 112                |           |                 | 75.0-131        |          | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| (S) 4-Bromofluorobenzene  | 92.9               |           |                 | 67.0-138        |          | 08/19/2023 18:50     | <a href="#">WG2117303</a> |
| (S) 1,2-Dichloroethane-d4 | 92.5               |           |                 | 70.0-130        |          | 08/19/2023 18:50     | <a href="#">WG2117303</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.4   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 4.77         |           | 1.35      | 3.97      | 25       | 08/24/2023 03:15 | <a href="#">WG2119788</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 107          |           |           | 77.0-120  |          | 08/24/2023 03:15 | <a href="#">WG2119788</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | U            |           | 0.000742  | 0.00159   | 1        | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| Toluene                   | 0.00412      | J         | 0.00207   | 0.00794   | 1        | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.00437      |           | 0.00117   | 0.00397   | 1        | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| Total Xylenes             | 0.0257       |           | 0.00140   | 0.0103    | 1        | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           | 67.0-138  |          | 08/19/2023 20:08 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 94.8         |           |           | 70.0-130  |          | 08/19/2023 20:08 | <a href="#">WG2117318</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 75.3   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 13.2         | <u>B</u>  | 1.44      | 4.24      | 25       | 08/20/2023 00:13 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 106          |           |           | 77.0-120  |          | 08/20/2023 00:13 | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.477        |           | 0.000792  | 0.00170   | 1        | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| Toluene                   | 0.256        |           | 0.00221   | 0.00848   | 1        | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.204        |           | 0.00125   | 0.00424   | 1        | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| Total Xylenes             | 1.02         |           | 0.00149   | 0.0110    | 1        | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 08/19/2023 20:28 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 97.8         |           |           | 70.0-130  |          | 08/19/2023 20:28 | <a href="#">WG2117318</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.4   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 22.6         |           | 1.35      | 3.98      | 25       | 08/20/2023 00:31 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 109          |           |           | 77.0-120  |          | 08/20/2023 00:31 | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.02         |           | 0.000743  | 0.00159   | 1        | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| Toluene                   | 0.0344       |           | 0.00207   | 0.00796   | 1        | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.627        |           | 0.00117   | 0.00398   | 1        | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| Total Xylenes             | 0.855        |           | 0.00140   | 0.0103    | 1        | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           | 67.0-138  |          | 08/19/2023 20:47 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 98.8         |           |           | 70.0-130  |          | 08/19/2023 20:47 | <a href="#">WG2117318</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.8   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

Metals (ICP) by Method 6010D

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Lead    | 1.65         |           | 0.264     | 0.634     | 1        | 08/23/2023 13:10 | <a href="#">WG2117305</a> |

Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Unadjusted C5-C6 Aliphatics  | U            |           | 2.57      | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| Adjusted C5-C6 Aliphatics    | U            |           | 2.57      | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| Unadjusted C6-C8 Aliphatics  | 1.26         | J         | 0.700     | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| Adjusted C6-C8 Aliphatics    | U            |           | 0.700     | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| Unadjusted C8-C10 Aliphatics | U            |           | 2.57      | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| Adjusted C8-C10 Aliphatics   | U            |           | 2.57      | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| C8-C10 Aromatics             | U            |           | 0.854     | 7.69      | 1        | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(FID)  | 78.4         |           |           | 60.0-140  |          | 08/29/2023 07:53 | <a href="#">WG2120661</a> |
| (S) 2,5-Dibromotoluene(PID)  | 90.0         |           |           | 60.0-140  |          | 08/29/2023 07:53 | <a href="#">WG2120661</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 13.4         | B         | 1.30      | 3.84      | 25       | 08/20/2023 00:49 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103          |           |           | 77.0-120  |          | 08/20/2023 00:49 | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.892        |           | 0.000718  | 0.00154   | 1        | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| Toluene                   | 0.0195       |           | 0.00200   | 0.00769   | 1        | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.855        |           | 0.00113   | 0.00384   | 1        | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| Total Xylenes             | 0.332        |           | 0.00135   | 0.0100    | 1        | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/19/2023 21:06 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 99.8         |           |           | 70.0-130  |          | 08/19/2023 21:06 | <a href="#">WG2117318</a> |

TPH by Method EPH

| Analyte                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C12 Aliphatics      | U            |           | 2.13      | 6.34      | 1        | 08/23/2023 17:50 | <a href="#">WG2118724</a> |
| C12-C16 Aliphatics      | U            |           | 2.13      | 6.34      | 1        | 08/23/2023 17:50 | <a href="#">WG2118724</a> |
| C16-C21 Aliphatics      | U            |           | 2.13      | 6.34      | 1        | 08/23/2023 17:50 | <a href="#">WG2118724</a> |
| C21-C34 Aliphatics      | 2.55         | B J       | 2.13      | 6.34      | 1        | 08/23/2023 17:50 | <a href="#">WG2118724</a> |
| C10-C12 Aromatics       | U            |           | 2.69      | 6.34      | 1        | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| C12-C16 Aromatics       | U            | J4        | 2.69      | 6.34      | 1        | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| C16-C21 Aromatics       | U            |           | 2.69      | 6.34      | 1        | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| C21-C34 Aromatics       | U            |           | 2.69      | 6.34      | 1        | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| (S) o-Terphenyl         | 61.0         | J2        |           | 70.0-130  |          | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| (S) 1-Chloro-octadecane | 56.8         | J2        |           | 70.0-130  |          | 08/23/2023 17:50 | <a href="#">WG2118724</a> |
| (S) 2-Fluorobiphenyl    | 90.3         |           |           | 70.0-130  |          | 08/23/2023 23:31 | <a href="#">WG2118724</a> |
| (S) 2-Bromonaphthalene  | 86.8         |           |           | 70.0-130  |          | 08/23/2023 23:31 | <a href="#">WG2118724</a> |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 90.8   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1730         |           | 20.3      | 60.2      | 500      | 08/24/2023 04:47 | <a href="#">WG2119788</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.9         |           |           | 77.0-120  |          | 08/24/2023 04:47 | <a href="#">WG2119788</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.163        |           | 0.00450   | 0.00963   | 8        | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| Toluene                   | 5.51         |           | 0.0125    | 0.0482    | 8        | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 13.8         |           | 0.00710   | 0.0241    | 8        | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| Total Xylenes             | 125          |           | 0.0848    | 0.626     | 80       | 08/23/2023 11:36 | <a href="#">WG2118985</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 108          |           |           | 75.0-131  |          | 08/23/2023 11:36 | <a href="#">WG2118985</a> |
| (S) 4-Bromofluorobenzene  | 110          |           |           | 67.0-138  |          | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 98.9         |           |           | 67.0-138  |          | 08/23/2023 11:36 | <a href="#">WG2118985</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9         |           |           | 70.0-130  |          | 08/19/2023 22:22 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 91.9         |           |           | 70.0-130  |          | 08/23/2023 11:36 | <a href="#">WG2118985</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 90.2   |           | 1        | 08/19/2023 12:17     | <a href="#">WG2117068</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 1160               |           | 4.15            | 12.2            | 100      | 08/20/2023 02:21     | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105                |           |                 | 77.0-120        |          | 08/20/2023 02:21     | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.185              |           | 0.00458         | 0.00980         | 8        | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| Toluene                   | 8.21               |           | 0.0127          | 0.0490          | 8        | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| Ethylbenzene              | 14.0               |           | 0.00723         | 0.0245          | 8        | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| Total Xylenes             | 130                |           | 0.0862          | 0.637           | 80       | 08/23/2023 11:55     | <a href="#">WG2118985</a> |
| (S) Toluene-d8            | 106                |           |                 | 75.0-131        |          | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 107                |           |                 | 75.0-131        |          | 08/23/2023 11:55     | <a href="#">WG2118985</a> |
| (S) 4-Bromofluorobenzene  | 111                |           |                 | 67.0-138        |          | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 98.6               |           |                 | 67.0-138        |          | 08/23/2023 11:55     | <a href="#">WG2118985</a> |
| (S) 1,2-Dichloroethane-d4 | 95.5               |           |                 | 70.0-130        |          | 08/19/2023 22:41     | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 92.0               |           |                 | 70.0-130        |          | 08/23/2023 11:55     | <a href="#">WG2118985</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 96.1   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 155          |           | 0.918     | 2.71      | 25       | 08/20/2023 01:08 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 113          |           |           | 77.0-120  |          | 08/20/2023 01:08 | <a href="#">WG2117360</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.109        |           | 0.000505  | 0.00108   | 1        | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| Toluene                   | 0.615        |           | 0.00141   | 0.00541   | 1        | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.870        |           | 0.000797  | 0.00271   | 1        | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| Total Xylenes             | 7.06         |           | 0.000952  | 0.00703   | 1        | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 105          |           |           | 75.0-131  |          | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 08/19/2023 21:25 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 08/19/2023 21:25 | <a href="#">WG2117318</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.3   |           | 1        | 08/19/2023 12:17 | <a href="#">WG2117068</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 28.1         |           | 1.39      | 4.09      | 25       | 08/20/2023 01:26 | <a href="#">WG2117360</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 107          |           |           | 77.0-120  |          | 08/20/2023 01:26 | <a href="#">WG2117360</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.26         |           | 0.000763  | 0.00163   | 1        | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| Toluene                   | 0.0322       |           | 0.00212   | 0.00817   | 1        | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| Ethylbenzene              | 0.698        |           | 0.00120   | 0.00409   | 1        | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| Total Xylenes             | 0.704        |           | 0.00144   | 0.0106    | 1        | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           | 67.0-138  |          | 08/19/2023 21:44 | <a href="#">WG2117318</a> |
| (S) 1,2-Dichloroethane-d4 | 97.2         |           |           | 70.0-130  |          | 08/19/2023 21:44 | <a href="#">WG2117318</a> |

Method Blank (MB)

(MB) R3962968-1 08/19/23 10:39

| Analyte      | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
|              | %         |                     | %      | %      |
| Total Solids | 0.00200   |                     |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1647515-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1647515-01 08/19/23 10:39 • (DUP) R3962968-3 08/19/23 10:39

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
|              | %               | %          |          | %       |                      | %              |
| Total Solids | 80.0            | 79.0       | 1        | 1.30    |                      | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3962968-2 08/19/23 10:39

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|--------------|--------------|------------|----------|-------------|----------------------|
|              | %            | %          | %        | %           |                      |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |                      |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962978-1 08/19/23 12:17

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00200   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1647515-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1647515-11 08/19/23 12:17 • (DUP) R3962978-3 08/19/23 12:17

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 77.3            | 78.5       | 1        | 1.53    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3962978-2 08/19/23 12:17

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3964428-1 08/23/23 11:44

| Analyte | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------|--------------------|--------------|-----------------|-----------------|
| Lead    | U                  |              | 0.208           | 0.500           |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3964428-2 08/23/23 11:46

| Analyte | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|-----------------------|---------------------|---------------|------------------|---------------|
| Lead    | 100                   | 101                 | 101           | 80.0-120         |               |

<sup>4</sup>Cn

<sup>5</sup>Sr

L1646856-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646856-01 08/23/23 11:49 • (MS) R3964428-5 08/23/23 11:58 • (MSD) R3964428-6 08/23/23 12:01

| Analyte | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 100                   | 6.73                     | 97.3               | 104                 | 90.5         | 97.6          | 1        | 75.0-125         |              |               | 6.95     | 20              |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3967194-3 08/29/23 02:44

| Analyte                      | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------|--------------------|--------------|-----------------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 2.08               | U            | 1.67            | 5.00            |
| Adjusted C5-C6 Aliphatics    | 2.08               | U            | 1.67            | 5.00            |
| Unadjusted C6-C8 Aliphatics  | U                  |              | 0.455           | 5.00            |
| Adjusted C6-C8 Aliphatics    | U                  |              | 0.455           | 5.00            |
| Unadjusted C8-C10 Aliphatics | U                  |              | 1.67            | 5.00            |
| Adjusted C8-C10 Aliphatics   | U                  |              | 1.67            | 5.00            |
| C8-C10 Aromatics             | U                  |              | 0.555           | 5.00            |
| (S) 2,5-Dibromotoluene(FID)  | 76.3               |              |                 | 60.0-140        |
| (S) 2,5-Dibromotoluene(PID)  | 88.1               |              |                 | 60.0-140        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

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

(LCS) R3967194-1 08/29/23 00:27 • (LCSD) R3967194-2 08/29/23 01:02

| Analyte                      | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Unadjusted C5-C6 Aliphatics  | 30.0                  | 25.3                | 26.2                 | 84.3          | 87.3           | 70.0-130         |               |                | 3.50     | 25              |
| Unadjusted C6-C8 Aliphatics  | 20.0                  | 18.5                | 19.2                 | 92.5          | 96.0           | 70.0-130         |               |                | 3.71     | 25              |
| Unadjusted C8-C10 Aliphatics | 60.0                  | 66.0                | 68.9                 | 110           | 115            | 70.0-130         |               |                | 4.30     | 25              |
| C8-C10 Aromatics             | 50.0                  | 61.4                | 63.3                 | 123           | 127            | 70.0-130         |               |                | 3.05     | 25              |
| (S) 2,5-Dibromotoluene(FID)  |                       |                     |                      | 83.7          | 86.5           | 60.0-140         |               |                |          |                 |
| (S) 2,5-Dibromotoluene(PID)  |                       |                     |                      | 93.2          | 95.9           | 60.0-140         |               |                |          |                 |

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3963584-2 08/19/23 22:00

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | 0.932              | J            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 106                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3963584-1 08/19/23 20:31

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 5.89                | 107           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 108           | 77.0-120         |               |

L1647515-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1647515-01 08/19/23 23:17 • (MS) R3963584-3 08/20/23 05:42 • (MSD) R3963584-4 08/20/23 06:01

| Analyte                            | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 208                         | 250                            | 478                      | 494                       | 109          | 117           | 25.3     | 50.0-150         | E            | E             | 3.39     | 27              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                             |                                |                          |                           | 116          | 115           |          | 77.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3964793-3 08/24/23 02:04

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | U                  |              | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 114                |              |                 | 77.0-120        |

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

(LCS) R3964793-1 08/24/23 00:51 • (LCSD) R3964793-2 08/24/23 01:09

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 6.01                | 5.89                 | 109           | 107            | 71.0-124         |               |                | 2.02     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 110           | 114            | 77.0-120         |               |                |          |                 |

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

Method Blank (MB)

(MB) R3963142-3 08/19/23 15:22

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/kg     |              | mg/kg    | mg/kg    |
| Benzene                   | U         |              | 0.000467 | 0.00100  |
| Toluene                   | 0.00158   | J            | 0.00130  | 0.00500  |
| Ethylbenzene              | U         |              | 0.000737 | 0.00250  |
| Total Xylenes             | U         |              | 0.000880 | 0.00650  |
| (S) Toluene-d8            | 113       |              |          | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 73.3      |              |          | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 98.0      |              |          | 70.0-130 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

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

(LCS) R3963142-1 08/19/23 12:40 • (LCSD) R3963142-2 08/19/23 12:59

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                           | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                   | 0.125        | 0.112      | 0.115       | 89.6     | 92.0      | 70.0-123    |               |                | 2.64  | 20         |
| Toluene                   | 0.125        | 0.120      | 0.122       | 96.0     | 97.6      | 75.0-121    |               |                | 1.65  | 20         |
| Ethylbenzene              | 0.125        | 0.126      | 0.126       | 101      | 101       | 74.0-126    |               |                | 0.000 | 20         |
| Total Xylenes             | 0.375        | 0.381      | 0.383       | 102      | 102       | 72.0-127    |               |                | 0.524 | 20         |
| (S) Toluene-d8            |              |            |             | 109      | 109       | 75.0-131    |               |                |       |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 99.2     | 102       | 67.0-138    |               |                |       |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 101      | 103       | 70.0-130    |               |                |       |            |

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3963980-2 08/19/23 15:53

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 108       |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 104       |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 97.9      |              |          | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3963980-1 08/19/23 13:23

| Analyte                          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------------|--------------|------------|----------|-------------|---------------|
|                                  | mg/kg        | mg/kg      | %        | %           |               |
| Benzene                          | 0.125        | 0.140      | 112      | 70.0-123    |               |
| Toluene                          | 0.125        | 0.143      | 114      | 75.0-121    |               |
| Ethylbenzene                     | 0.125        | 0.137      | 110      | 74.0-126    |               |
| Total Xylenes                    | 0.375        | 0.410      | 109      | 72.0-127    |               |
| <i>(S) Toluene-d8</i>            |              |            | 106      | 75.0-131    |               |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            | 108      | 67.0-138    |               |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            | 101      | 70.0-130    |               |

L1647469-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1647469-05 08/19/23 22:03 • (MS) R3963980-3 08/20/23 00:35 • (MSD) R3963980-4 08/20/23 00:54

| Analyte                          | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
|                                  | mg/kg        | mg/kg           | mg/kg     | mg/kg      | %       | %        |          | %           |              |               | %     | %          |
| Benzene                          | 1.00         | U               | 1.44      | 1.45       | 144     | 145      | 8        | 10.0-149    |              |               | 0.692 | 37         |
| Toluene                          | 1.00         | U               | 1.48      | 1.46       | 148     | 146      | 8        | 10.0-156    |              |               | 1.36  | 38         |
| Ethylbenzene                     | 1.00         | 0.0124          | 1.45      | 1.45       | 144     | 144      | 8        | 10.0-160    |              |               | 0.000 | 38         |
| Total Xylenes                    | 3.00         | 0.0132          | 4.26      | 4.23       | 142     | 141      | 8        | 10.0-160    |              |               | 0.707 | 38         |
| <i>(S) Toluene-d8</i>            |              |                 |           |            | 105     | 105      |          | 75.0-131    |              |               |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |                 |           |            | 108     | 107      |          | 67.0-138    |              |               |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |                 |           |            | 96.4    | 97.1     |          | 70.0-130    |              |               |       |            |

Sample Narrative:

OS: Lowest possible dilution due to sample foaming.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3963828-3 08/21/23 09:59

| Analyte                   | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|---------------------------|-----------|--------------|----------|----------|
|                           | mg/kg     |              | mg/kg    | mg/kg    |
| Ethylbenzene              | U         |              | 0.000737 | 0.00250  |
| Total Xylenes             | U         |              | 0.000880 | 0.00650  |
| (S) Toluene-d8            | 103       |              |          | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 101       |              |          | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 106       |              |          | 70.0-130 |

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

(LCS) R3963828-1 08/21/23 08:23 • (LCSD) R3963828-2 08/21/23 08:42

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                           | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %    | %          |
| Ethylbenzene              | 0.125        | 0.126      | 0.129       | 101      | 103       | 74.0-126    |               |                | 2.35 | 20         |
| Total Xylenes             | 0.375        | 0.373      | 0.382       | 99.5     | 102       | 72.0-127    |               |                | 2.38 | 20         |
| (S) Toluene-d8            |              |            |             | 118      | 105       | 75.0-131    |               |                |      |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 98.8     | 96.3      | 67.0-138    |               |                |      |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 113      | 108       | 70.0-130    |               |                |      |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3964509-3 08/23/23 09:19

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Total Xylenes             | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 108                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 93.3               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 86.3               |              |                 | 70.0-130        |

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

(LCS) R3964509-1 08/23/23 07:41 • (LCSD) R3964509-2 08/23/23 08:00

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Total Xylenes             | 0.375                 | 0.356               | 0.357                | 94.9          | 95.2           | 72.0-127         |               |                | 0.281    | 20              |
| (S) Toluene-d8            |                       |                     |                      | 107           | 108            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 94.6          | 95.6           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 91.8          | 94.1           | 70.0-130         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3964773-1 08/23/23 15:37

| Analyte                 | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|-------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C12-C16 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C16-C21 Aliphatics      | U                  |              | 1.68            | 5.00            |
| C21-C34 Aliphatics      | 2.24               | J            | 1.68            | 5.00            |
| (S) 1-Chloro-octadecane | 82.0               |              |                 | 70.0-130        |

Method Blank (MB)

(MB) R3964773-4 08/23/23 16:44

| Analyte                | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| C10-C12 Aromatics      | U                  |              | 2.12            | 5.00            |
| C12-C16 Aromatics      | U                  |              | 2.12            | 5.00            |
| C16-C21 Aromatics      | U                  |              | 2.12            | 5.00            |
| C21-C34 Aromatics      | U                  |              | 2.12            | 5.00            |
| (S) o-Terphenyl        | 79.3               |              |                 | 70.0-130        |
| (S) 2-Fluorobiphenyl   | 90.0               |              |                 | 70.0-130        |
| (S) 2-Bromonaphthalene | 91.0               |              |                 | 70.0-130        |

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

(LCS) R3964773-2 08/23/23 15:59 • (LCSD) R3964773-3 08/23/23 16:21

| Analyte                 | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aliphatics      | 6.65                  | 4.68                | 4.91                 | 70.4          | 73.8           | 70.0-130         |               |                | 4.80     | 20              |
| C12-C16 Aliphatics      | 13.3                  | 9.90                | 10.3                 | 74.4          | 77.4           | 70.0-130         |               |                | 3.96     | 20              |
| C16-C21 Aliphatics      | 20.0                  | 17.5                | 18.2                 | 87.5          | 91.0           | 70.0-130         |               |                | 3.92     | 20              |
| C21-C34 Aliphatics      | 33.3                  | 28.9                | 29.1                 | 86.8          | 87.4           | 70.0-130         |               |                | 0.690    | 20              |
| (S) 1-Chloro-octadecane |                       |                     |                      | 78.0          | 76.3           | 70.0-130         |               |                |          |                 |

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

(LCS) R3964773-5 08/23/23 17:06 • (LCSD) R3964773-6 08/23/23 17:28

| Analyte           | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| C10-C12 Aromatics | 6.65                  | 4.74                | 4.78                 | 71.3          | 71.9           | 70.0-130         |               |                | 0.840    | 20              |
| C12-C16 Aromatics | 20.0                  | 12.9                | 13.2                 | 64.5          | 66.0           | 70.0-130         | J4            | J4             | 2.30     | 20              |
| C16-C21 Aromatics | 33.3                  | 25.7                | 26.5                 | 77.2          | 79.6           | 70.0-130         |               |                | 3.07     | 20              |
| C21-C34 Aromatics | 53.2                  | 42.3                | 43.3                 | 79.5          | 81.4           | 70.0-130         |               |                | 2.34     | 20              |



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

(LCS) R3964773-5 08/23/23 17:06 • (LCSD) R3964773-6 08/23/23 17:28

| Analyte                | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| (S) o-Terphenyl        |                       |                     |                      | 78.0          | 78.0           | 70.0-130         |               |                |          |                 |
| (S) 2-Fluorobiphenyl   |                       |                     |                      | 91.9          | 89.8           | 70.0-130         |               |                |          |                 |
| (S) 2-Bromonaphthalene |                       |                     |                      | 93.0          | 90.8           | 70.0-130         |               |                |          |                 |

L1646265-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646265-01 08/24/23 15:30 • (MS) R3965378-1 08/24/23 15:52 • (MSD) R3965378-2 08/24/23 16:14

| Analyte                 | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C12 Aliphatics      | 7.25                           | U                                 | 5.56                     | 5.68                         | 76.8         | 77.7          | 1        | 70.0-130         |              |               | 1.98     | 20              |
| C12-C16 Aliphatics      | 14.5                           | 6.37                              | 15.2                     | 16.8                         | 60.7         | 71.7          | 1        | 70.0-130         | J6           |               | 10.5     | 20              |
| C16-C21 Aliphatics      | 21.7                           | 17.2                              | 32.9                     | 41.5                         | 72.3         | 111           | 1        | 70.0-130         |              | J3            | 23.1     | 20              |
| C21-C34 Aliphatics      | 36.2                           | 10.2                              | 36.0                     | 43.7                         | 71.3         | 91.7          | 1        | 70.0-130         |              |               | 19.3     | 20              |
| (S) 1-Chloro-octadecane |                                |                                   |                          |                              | 74.2         | 71.4          |          | 70.0-130         |              |               |          |                 |

L1646265-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646265-01 08/24/23 15:30 • (MS) R3965378-3 08/24/23 19:34 • (MSD) R3965378-4 08/24/23 19:56

| Analyte                | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C12 Aromatics      | 7.25                           | U                                 | 5.18                     | 5.23                         | 71.5         | 71.6          | 1        | 70.0-130         |              |               | 0.857    | 20              |
| C12-C16 Aromatics      | 21.7                           | U                                 | 14.3                     | 14.6                         | 65.6         | 66.5          | 1        | 70.0-130         | J6           | J6            | 2.32     | 20              |
| C16-C21 Aromatics      | 36.2                           | U                                 | 29.1                     | 30.4                         | 80.3         | 83.2          | 1        | 70.0-130         |              |               | 4.49     | 20              |
| C21-C34 Aromatics      | 58.0                           | U                                 | 49.2                     | 50.8                         | 84.8         | 87.0          | 1        | 70.0-130         |              |               | 3.34     | 20              |
| (S) o-Terphenyl        |                                |                                   |                          |                              | 75.8         | 74.6          |          | 70.0-130         |              |               |          |                 |
| (S) 2-Fluorobiphenyl   |                                |                                   |                          |                              | 89.0         | 88.7          |          | 70.0-130         |              |               |          |                 |
| (S) 2-Bromonaphthalene |                                |                                   |                          |                              | 90.8         | 90.8          |          | 70.0-130         |              |               |          |                 |



# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC17 • File ID: 0819\_32

08/19/23 20:12

| Sample ID                      | File ID | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|---------|---------------------|---------------------|
|                                |         | Response            | Response            |
| Standard                       | 0819_32 | 242652500           | 242652500           |
| Upper Limit                    |         | 485305000           | 485305000           |
| Lower Limit                    |         | 121326200           | 121326200           |
| LCS R3963584-1 WG2117360 1x    | 0819_33 | 271081700           | 271081700           |
| BLANK R3963584-2 WG2117360 25x | 0819_36 | 240874400           | 240874400           |
| L1647515-01 WG2117360 25.3x    | 0819_37 | 229343100           | 229343100           |
| L1647515-03 WG2117360 25x      | 0819_38 | 233378800           | 233378800           |
| L1647515-05 WG2117360 25x      | 0819_40 | 235739100           | 235739100           |
| L1647515-06 WG2117360 25x      | 0819_41 | 285204700           | 285204700           |
| L1647515-07 WG2117360 25x      | 0819_42 | 237607100           | 1900303             |
| L1647515-10 WG2117360 25x      | 0819_43 | 222319600           | 222319600           |
| L1647515-11 WG2117360 25x      | 0819_44 | 232177500           | 232177500           |
| L1647515-09 WG2117360 100x     | 0819_47 | 252291100           | 252291100           |
| MS R3963584-3 WG2117360 25.3x  | 0819_58 | 227541400           | 227541400           |
| MSD R3963584-4 WG2117360 25.3x | 0819_59 | 219538300           | 219538300           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCGC17 • File ID: 0824\_02

08/24/23 00:31

| Sample ID                      | File ID  | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|--------------------------------|----------|---------------------|---------------------|
|                                |          | Response            | Response            |
| Standard                       | 0824_02  | 245436200           | 245436200           |
| Upper Limit                    |          | 490872400           | 490872400           |
| Lower Limit                    |          | 122718100           | 122718100           |
| LCS R3964793-1 WG2119788 1x    | 0824_03A | 255970800           | 255970800           |
| LCSD R3964793-2 WG2119788 1x   | 0824_04A | 241951800           | 241951800           |
| BLANK R3964793-3 WG2119788 25x | 0824_07A | 225944400           | 225944400           |
| L1647515-04 WG2119788 25x      | 0824_10  | 234898100           | 234898100           |
| L1647515-08 WG2119788 500x     | 0824_15  | 243499600           | 243499600           |
| L1647515-02 WG2119788 2000x    | 0824_16  | 253250800           | 253250800           |

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS42 • File ID: 0819\_09-1

08/19/23 13:23

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0819_09-1  | 549113.60                      | 257149.90                         | 242370.10                               |
| Upper Limit                   |            | 1098227                        | 514300                            | 484740                                  |
| Lower Limit                   |            | 274557                         | 128575                            | 121185                                  |
| LCS R3963980-1 WG2117318 1x   | 0819_09LCS | 549113.60                      | 257149.90                         | 242370.10                               |
| BLANK R3963980-2 WG2117318 1x | 0819_12    | 499538.60                      | 238751.50                         | 217884.60                               |
| L1647515-04 WG2117318 1x      | 0819_20    | 566248.40                      | 267757.60                         | 249344.30                               |
| L1647515-05 WG2117318 1x      | 0819_21    | 522046.70                      | 250392.70                         | 237013.90                               |
| L1647515-06 WG2117318 1x      | 0819_22    | 517387.20                      | 246822.80                         | 231080.30                               |
| L1647515-07 WG2117318 1x      | 0819_23    | 554748                         | 268404.60                         | 243442                                  |
| L1647515-10 WG2117318 1x      | 0819_24    | 519908.40                      | 248833.10                         | 237882.60                               |
| L1647515-11 WG2117318 1x      | 0819_25    | 546225.80                      | 263666.40                         | 247185.60                               |
| L1647515-08 WG2117318 8x      | 0819_27    | 594226.40                      | 281105.90                         | 265018.40                               |
| L1647515-09 WG2117318 8x      | 0819_28    | 607599.10                      | 288031.30                         | 278400.30                               |
| MS R3963980-3 WG2117318 8x    | 0819_34    | 585330.10                      | 277694.90                         | 266362.70                               |
| MSD R3963980-4 WG2117318 8x   | 0819_35    | 582852.90                      | 273245.40                         | 259844.40                               |

Instrument: VOCMS54 • File ID: 0821\_02-1

08/21/23 08:23

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0821_02-1   | 595885                         | 239717.50                         | 193568.60                               |
| Upper Limit                   |             | 1191770                        | 479435                            | 387137                                  |
| Lower Limit                   |             | 297943                         | 119859                            | 96784                                   |
| LCS R3963828-1 WG2117946 1x   | 0821_02LCSA | 595885                         | 239717.50                         | 193568.60                               |
| LCSD R3963828-2 WG2117946 1x  | 0821_03A    | 544505.60                      | 248174.50                         | 187189                                  |
| BLANK R3963828-3 WG2117946 1x | 0821_07     | 552095.10                      | 277725.40                         | 228200.10                               |
| L1647515-01 WG2117946 10x     | 0821_08     | 590691.50                      | 270734.60                         | 256076                                  |
| L1647515-02 WG2117946 800x    | 0821_09     | 552701.70                      | 252778.70                         | 195040.80                               |



# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS56 • File ID: 0819\_02-1

08/19/23 12:40

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0819_02-1  | 786571.30                      | 375154.20                         | 334622.80                               |
| Upper Limit                   |            | 1573143                        | 750308                            | 669246                                  |
| Lower Limit                   |            | 393286                         | 187577                            | 167311                                  |
| LCS R3963142-1 WG2117303 1x   | 0819_02LCS | 786571.30                      | 375154.20                         | 334622.80                               |
| LCSD R3963142-2 WG2117303 1x  | 0819_03    | 794983.80                      | 383019.20                         | 360510.70                               |
| BLANK R3963142-3 WG2117303 1x | 0819_09    | 735852.80                      | 328114.60                         | 192886                                  |
| L1647515-01 WG2117303 1.01x   | 0819_16    | 666242                         | 231002.70                         | 321063.80                               |
| L1647515-03 WG2117303 1x      | 0819_17    | 857074                         | 386712.30                         | 279290.60                               |
| L1647515-02 WG2117303 8x      | 0819_18    | 930104.90                      | 507017.50                         | 318590.90                               |

## Instrument: VOCMS59 • File ID: 0823\_02-1

08/23/23 07:41

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0823_02-1   | 214419.30                      | 93879.70                          | 98402.40                                |
| Upper Limit                   |             | 428839                         | 187759                            | 196805                                  |
| Lower Limit                   |             | 107210                         | 46940                             | 49201                                   |
| LCS R3964509-1 WG2118985 1x   | 0823_02LCSA | 214419.30                      | 93879.70                          | 98402.40                                |
| LCSD R3964509-2 WG2118985 1x  | 0823_03A    | 217541.90                      | 94829.40                          | 97730.30                                |
| BLANK R3964509-3 WG2118985 1x | 0823_07A    | 214915.60                      | 92344.10                          | 92041.30                                |
| L1647515-08 WG2118985 80x     | 0823_10     | 203912                         | 90811.90                          | 95499.50                                |
| L1647515-09 WG2118985 80x     | 0823_11     | 204917.40                      | 90744.20                          | 95038.90                                |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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   |
|-----------|---|
| B         | The same analyte is found in the associated blank.  |
| E         | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.   |
| J1        | Surrogate recovery limits have been exceeded; values are outside upper control limits.  |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits.  |
| J3        | The associated batch QC was outside the established quality control range for precision.  |
| J4        | The associated batch QC was outside the established quality control range for accuracy.   |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:

Accounts Payable  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**1465751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Senney**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Senney**

Rush? (Lab MUST Be Notified)

Quote #

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed

Immediately  
Packed on Ice N  Y

No.  
of  
Cnts

| Sample ID            | Comp/Grab    | Matrix *      | Depth         | Date               | Time            | No. of Cnts  | EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |
|----------------------|--------------|---------------|---------------|--------------------|-----------------|--------------|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
| SP-SI-10             | G            | SS            | -             | 8/15/23            | 0630            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| C5-SW4-6             | G            | SS            | 6             | 8/15/23            | 0645            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| <del>D5-SW4-10</del> | <del>G</del> | <del>SS</del> | <del>10</del> | <del>8/15/23</del> | <del>0655</del> | <del>3</del> |                      |                            | <del>X</del>                 |                       |                            |                            | <del>X</del>                   | <del>X</del>                |
| D6-SW4-10            | G            | SS            | 10            | 8/15/23            | 0655            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| D1-SW2-12            | G            | SS            | 12            | 8/15/23            | 0725            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| <del>F5-SW4-15</del> | <del>G</del> | <del>SS</del> | <del>15</del> | <del>8/15/23</del> | <del>1340</del> | <del>3</del> |                      |                            | <del>X</del>                 |                       |                            |                            | <del>X</del>                   | <del>X</del>                |
| G6-SW4-15            | G            | SS            | 15            | 8/15/23            | 1340            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| <del>F5-SW4-13</del> | <del>G</del> | <del>SS</del> | <del>13</del> | <del>8/15/23</del> | <del>1350</del> | <del>3</del> |                      |                            | <del>X</del>                 |                       |                            |                            | <del>X</del>                   | <del>X</del>                |
| H6-SW4-13            | G            | SS            | 13            | 8/15/23            | 1350            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| <del>F5-SW3-12</del> | <del>G</del> | <del>SS</del> | <del>12</del> | <del>8/15/23</del> | <del>1405</del> | <del>3</del> | <del>X</del>         |                            | <del>X</del>                 | <del>X</del>          |                            |                            | <del>X</del>                   | <del>X</del>                |
| H5-SW3-12            | G            | SS            | 12            | 8/15/23            | 1405            | 3            | X                    |                            | X                            | X                     |                            |                            | X                              | X                           |
| SP-SI-11             | G            | SS            | -             | 8/16/23            | 0700            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| SP-SI-12             | G            | SS            | -             | 8/16/23            | 0705            | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |
| Dup-04               | G            | SS            | -             | 8/15/23            | -               | 3            |                      |                            | X                            |                       |                            |                            | X                              | X                           |



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/hubs/pas-standard-terms.pdf>

SDG # **4647515**  
**B141**

Table  
Acctnum: **STANTECBWA**  
Template: **T234672**  
Prelogin: **P1013674**  
PM: **546 - Jared Starkey**  
PB: **7/25/23 am**  
Shipped Via: **FedEX Standard**

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 \_\_\_\_\_

Sample Receipt Checklist  
COC Seal Present/Intact:  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 # **6841 8344 8770**

Relinquished by: (Signature) **Paul M. Senney**  
Date: **8/17/23** Time: **1530**  
Received by: (Signature) **FedEx**

Trip Blank Received: Yes /  No  
HCL / MeOH  
TBR

Relinquished by: (Signature) \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: (Signature) \_\_\_\_\_

Temp: **6.48°C** Bottles Received: **35**  
**2.1 to 2.1**

If preservation required by Login: Date/Time

Relinquished by: (Signature) \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received for lab by: (Signature) **g LO**

Date: **8-18-23** Time: **8:00**

Hold: \_\_\_\_\_ Condition: **NCF / OK**

Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page **2** of **2**

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**195751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Jensen**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Jensen**

**Rush?** (Lab MUST Be Notified)

Quote #

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed

No.  
of  
Cntrs

Immediately Packed on Ice N  Y  X

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| Dup-05    | G         | SS       | -     | 8/15/23 | -    | 3            |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |

EPH WA 4ozAmb-NoPres  
NWTPHDXNOSGT 4ozClr-NoPres  
NWTPHGX 40mlAmb/MeOH10ml/Syr  
Pb 6010 2ozClr-NoPres  
SV8270PAHSIM 4ozClr-NoPres  
Total Solids 4ozClr-NoPres  
V8260BTEX 40mlAmb/MeOH10ml/Syr  
VPH WA 40mlAmb/MeOH10ml/Syr



**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/hubs/pas-standard-terms.pdf>

SDG # **11047015**

Table #

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **7/26/23 CAM**

Shipped Via: **FedEx Standard**

Remarks | Sample # (lab only)

-11

\* 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 # **6841 8344 8770**

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | NP <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |
| COC Signed/Accurate:          | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Bottles arrive intact:        | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Correct bottles used:         | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Sufficient volume sent:       | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| If Applicable                 |   |
| VOA Zero Headspace:           | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| Preservation Correct/Checked: | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |
| RAD Screen <0.5 mR/hr:        | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N    |

|   |                         |                      |   |  |
|---|-------------------------|----------------------|---|--|
| Relinquished by: (Signature)<br><b>Paul M. Jensen</b> | Date:<br><b>8/17/23</b> | Time:<br><b>1530</b> | Received by: (Signature)<br><b>FedEx</b>        | Trip Blank Received: Yes / No<br>HCL / MeOH<br>TBR           |
| Relinquished by: (Signature)                          | Date:                   | Time:                | Received by: (Signature)                        | Temp <b>6648 °C</b> Bottles Received:<br><b>2.160 &gt; 1</b> |
| Relinquished by: (Signature)                          | Date:                   | Time:                | Received for lab by: (Signature)<br><b>7 10</b> | Date: <b>8-18-23</b> Time: <b>9:00</b>                       |

If preservation required by Login: Date/Time  
Hold:  
Condition: **NCF / OK**

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

## Stantec- Bellevue, WA

Sample Delivery Group: L1650994  
Samples Received: 08/30/2023  
Project Number: 185751446  
Description: Hungry Whale

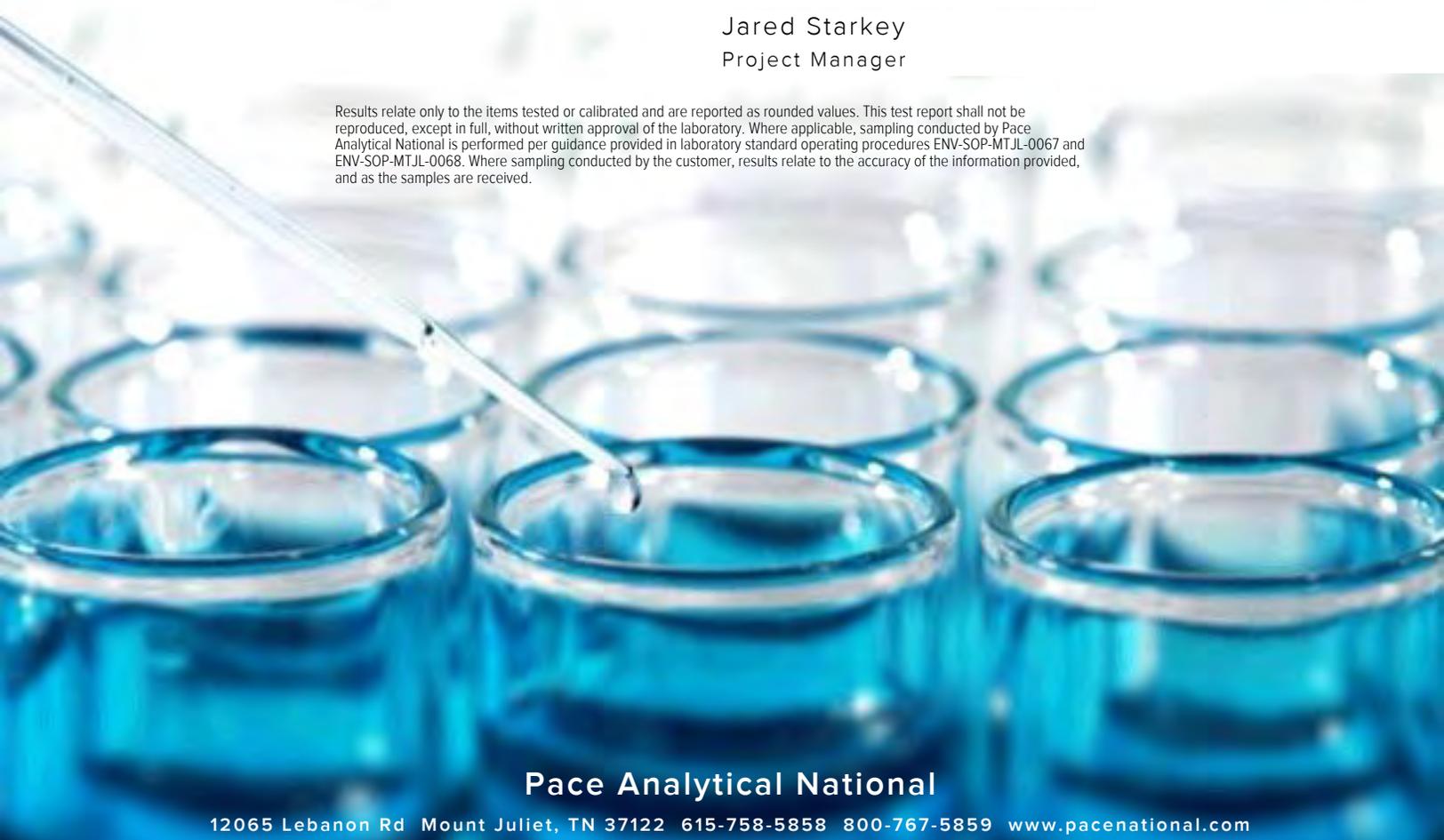
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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|                  |
|------------------|
| <sup>1</sup> Cp  |
| <sup>2</sup> Tc  |
| <sup>3</sup> Ss  |
| <sup>4</sup> Cn  |
| <sup>5</sup> Sr  |
| <sup>6</sup> Qc  |
| <sup>7</sup> Is  |
| <sup>8</sup> Gl  |
| <sup>9</sup> Al  |
| <sup>10</sup> Sc |

# SAMPLE SUMMARY

## D4-FL-15 L1650994-01 Solid

Collected by Paul Janney      Collected date/time 08/28/23 05:30      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2126379 | 1000     | 08/28/23 05:30        | 09/05/23 16:07     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 8        | 08/28/23 05:30        | 09/01/23 09:33     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2127231 | 400      | 08/28/23 05:30        | 09/06/23 21:16     | KSD     | Mt. Juliet, TN |



## E4-FL-15 L1650994-02 Solid

Collected by Paul Janney      Collected date/time 08/28/23 05:40      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2126379 | 500      | 08/28/23 05:40        | 09/05/23 16:31     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 1        | 08/28/23 05:40        | 09/01/23 07:01     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2127231 | 40       | 08/28/23 05:40        | 09/06/23 20:57     | KSD     | Mt. Juliet, TN |

## F4-FL-15 L1650994-03 Solid

Collected by Paul Janney      Collected date/time 08/28/23 05:50      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2126379 | 25       | 08/28/23 05:50        | 09/05/23 14:53     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 1        | 08/28/23 05:50        | 09/01/23 07:20     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2127231 | 20       | 08/28/23 05:50        | 09/06/23 20:38     | KSD     | Mt. Juliet, TN |

## F4-SW3-12 L1650994-04 Solid

Collected by Paul Janney      Collected date/time 08/28/23 06:00      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2126379 | 25       | 08/28/23 06:00        | 09/05/23 15:17     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 1        | 08/28/23 06:00        | 09/01/23 07:39     | DWR     | Mt. Juliet, TN |

## SP-SI-13 L1650994-05 Solid

Collected by Paul Janney      Collected date/time 08/28/23 06:15      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125620 | 25       | 08/28/23 06:15        | 09/02/23 08:59     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2127231 | 1        | 08/28/23 06:15        | 09/06/23 20:18     | KSD     | Mt. Juliet, TN |

## F3-FL-15 L1650994-06 Solid

Collected by Paul Janney      Collected date/time 08/28/23 06:25      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2126379 | 25       | 08/28/23 06:25        | 09/05/23 15:42     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 1        | 08/28/23 06:25        | 09/01/23 08:17     | DWR     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## E3-FL-15 L1650994-07 Solid

Collected by Paul Janney      Collected date/time 08/28/23 06:35      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126048 | 1        | 09/04/23 06:14        | 09/04/23 06:23     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2128172 | 2500     | 08/28/23 06:35        | 09/07/23 16:07     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125035 | 8        | 08/28/23 06:35        | 09/01/23 09:52     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2127231 | 400      | 08/28/23 06:35        | 09/06/23 21:35     | KSD     | Mt. Juliet, TN |



## F3-SW3-12 L1650994-08 Solid

Collected by Paul Janney      Collected date/time 08/28/23 06:45      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 28       | 08/28/23 06:45        | 09/03/23 01:58     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1.12     | 08/28/23 06:45        | 09/01/23 13:47     | ADM     | Mt. Juliet, TN |

## E2-FL-15 L1650994-09 Solid

Collected by Paul Janney      Collected date/time 08/28/23 07:35      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 07:35        | 09/03/23 02:21     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 07:35        | 09/01/23 14:06     | ADM     | Mt. Juliet, TN |

## F2-FL-15 L1650994-10 Solid

Collected by Paul Janney      Collected date/time 08/28/23 07:45      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 07:45        | 09/03/23 02:44     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 07:45        | 09/01/23 14:26     | ADM     | Mt. Juliet, TN |

## E2-SW2-13 L1650994-11 Solid

Collected by Paul Janney      Collected date/time 08/28/23 08:00      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 08:00        | 09/03/23 03:07     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 08:00        | 09/01/23 14:46     | ADM     | Mt. Juliet, TN |

## F2-SW2-15 L1650994-12 Solid

Collected by Paul Janney      Collected date/time 08/28/23 08:10      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 08:10        | 09/03/23 03:30     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 08:10        | 09/01/23 15:05     | ADM     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## F2-SW3-12 L1650994-13 Solid

Collected by Paul Janney      Collected date/time 08/28/23 08:20      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 08:20        | 09/03/23 03:53     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 08:20        | 09/01/23 15:25     | ADM     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

## SP-SI-14 L1650994-14 Solid

Collected by Paul Janney      Collected date/time 08/28/23 08:40      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 08:40        | 09/03/23 04:17     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 08:40        | 09/01/23 15:45     | ADM     | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

## SP-SI-15 L1650994-15 Solid

Collected by Paul Janney      Collected date/time 08/28/23 08:50      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 08:50        | 09/03/23 04:40     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 08:50        | 09/01/23 16:05     | ADM     | Mt. Juliet, TN |

7 Is

8 Gl

9 Al

10 Sc

## TB-01 L1650994-16 GW

Collected by Paul Janney      Collected date/time 08/28/23 00:00      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2127150 | 1        | 09/06/23 12:09        | 09/06/23 12:09     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2126979 | 1        | 09/05/23 21:13        | 09/05/23 21:13     | JAH     | Mt. Juliet, TN |

## DUP-06 L1650994-17 Solid

Collected by Paul Janney      Collected date/time 08/28/23 00:00      Received date/time 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                 | WG2126049 | 1        | 09/04/23 07:03        | 09/04/23 07:11     | CMK     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2125898 | 25       | 08/28/23 00:00        | 09/03/23 05:03     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2125293 | 1        | 08/28/23 00:00        | 09/01/23 16:24     | ADM     | Mt. Juliet, TN |

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

## Sample Delivery Group (SDG) Narrative

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Analyzed from headspace vial.

| Batch     | Method  | Lab Sample ID |
|-----------|---------|---------------|
| WG2127150 | NWTPHGX | L1650994-16   |

## Volatile Organic Compounds (GC) by Method NWTPHGX

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The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID   |
|-----------|-------------------------------|-----------------|
| WG2126379 | Gasoline Range Organics-NWTPH | L1650994-04, 06 |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.5   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5200         |           | 56.3      | 166       | 1000     | 09/05/2023 16:07 | <a href="#">WG2126379</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.4         |           |           | 77.0-120  |          | 09/05/2023 16:07 | <a href="#">WG2126379</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 5.90         |           | 0.00621   | 0.0133    | 8        | 09/01/2023 09:33 | <a href="#">WG2125035</a> |
| Toluene                   | 34.5         |           | 0.864     | 3.32      | 400      | 09/06/2023 21:16 | <a href="#">WG2127231</a> |
| Ethylbenzene              | 41.0         |           | 0.490     | 1.66      | 400      | 09/06/2023 21:16 | <a href="#">WG2127231</a> |
| Total Xylenes             | 296          |           | 0.585     | 4.32      | 400      | 09/06/2023 21:16 | <a href="#">WG2127231</a> |
| (S) Toluene-d8            | 95.9         |           |           | 75.0-131  |          | 09/01/2023 09:33 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 09/06/2023 21:16 | <a href="#">WG2127231</a> |
| (S) 4-Bromofluorobenzene  | 97.7         |           |           | 67.0-138  |          | 09/01/2023 09:33 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 09/06/2023 21:16 | <a href="#">WG2127231</a> |
| (S) 1,2-Dichloroethane-d4 | 92.5         |           |           | 70.0-130  |          | 09/01/2023 09:33 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 89.3         |           |           | 70.0-130  |          | 09/06/2023 21:16 | <a href="#">WG2127231</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.0   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3420         |           | 26.3      | 77.8      | 500      | 09/05/2023 16:31 | <a href="#">WG2126379</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6         |           |           | 77.0-120  |          | 09/05/2023 16:31 | <a href="#">WG2126379</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.779        |           | 0.000726  | 0.00156   | 1        | 09/01/2023 07:01 | <a href="#">WG2125035</a> |
| Toluene                   | 4.59         |           | 0.0809    | 0.311     | 40       | 09/06/2023 20:57 | <a href="#">WG2127231</a> |
| Ethylbenzene              | 6.92         |           | 0.0459    | 0.156     | 40       | 09/06/2023 20:57 | <a href="#">WG2127231</a> |
| Total Xylenes             | 39.5         |           | 0.0547    | 0.404     | 40       | 09/06/2023 20:57 | <a href="#">WG2127231</a> |
| (S) Toluene-d8            | 96.2         |           |           | 75.0-131  |          | 09/01/2023 07:01 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 99.7         |           |           | 75.0-131  |          | 09/06/2023 20:57 | <a href="#">WG2127231</a> |
| (S) 4-Bromofluorobenzene  | 93.0         |           |           | 67.0-138  |          | 09/01/2023 07:01 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 09/06/2023 20:57 | <a href="#">WG2127231</a> |
| (S) 1,2-Dichloroethane-d4 | 81.1         |           |           | 70.0-130  |          | 09/01/2023 07:01 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 91.7         |           |           | 70.0-130  |          | 09/06/2023 20:57 | <a href="#">WG2127231</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.2   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 110          |           | 1.38      | 4.06      | 25       | 09/05/2023 14:53 | <a href="#">WG2126379</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.2         |           |           | 77.0-120  |          | 09/05/2023 14:53 | <a href="#">WG2126379</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.781        |           | 0.000758  | 0.00162   | 1        | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| Toluene                   | 2.83         |           | 0.00211   | 0.00812   | 1        | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| Ethylbenzene              | 1.64         |           | 0.00120   | 0.00406   | 1        | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| Total Xylenes             | 11.4         |           | 0.0286    | 0.211     | 20       | 09/06/2023 20:38 | <a href="#">WG2127231</a> |
| (S) Toluene-d8            | 99.4         |           |           | 75.0-131  |          | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 09/06/2023 20:38 | <a href="#">WG2127231</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           | 67.0-138  |          | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 96.5         |           |           | 67.0-138  |          | 09/06/2023 20:38 | <a href="#">WG2127231</a> |
| (S) 1,2-Dichloroethane-d4 | 87.7         |           |           | 70.0-130  |          | 09/01/2023 07:20 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 84.3         |           |           | 70.0-130  |          | 09/06/2023 20:38 | <a href="#">WG2127231</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 76.1   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 21.1         | <u>B</u>  | 1.42      | 4.19      | 25       | 09/05/2023 15:17 | <a href="#">WG2126379</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.1         |           |           | 77.0-120  |          | 09/05/2023 15:17 | <a href="#">WG2126379</a> |

3 Ss

4 Cn

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 1.18         |           | 0.000782  | 0.00167   | 1        | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| Toluene                   | 0.0155       |           | 0.00218   | 0.00837   | 1        | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| Ethylbenzene              | 0.189        |           | 0.00123   | 0.00419   | 1        | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| Total Xylenes             | 0.0783       |           | 0.00147   | 0.0109    | 1        | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 98.9         |           |           | 75.0-131  |          | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 09/01/2023 07:39 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 86.5         |           |           | 70.0-130  |          | 09/01/2023 07:39 | <a href="#">WG2125035</a> |

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 81.4   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 18.3         |           | 1.24      | 3.66      | 25       | 09/02/2023 08:59 | <a href="#">WG2125620</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 111          |           |           | 77.0-120  |          | 09/02/2023 08:59 | <a href="#">WG2125620</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00565      |           | 0.000684  | 0.00146   | 1        | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| Toluene                   | 0.0176       |           | 0.00190   | 0.00732   | 1        | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| Ethylbenzene              | 0.0149       |           | 0.00108   | 0.00366   | 1        | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| Total Xylenes             | 0.105        |           | 0.00129   | 0.00952   | 1        | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| (S) Toluene-d8            | 107          |           |           | 75.0-131  |          | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 09/06/2023 20:18 | <a href="#">WG2127231</a> |
| (S) 1,2-Dichloroethane-d4 | 83.5         |           |           | 70.0-130  |          | 09/06/2023 20:18 | <a href="#">WG2127231</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 75.0   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 16.9         | <u>B</u>  | 1.46      | 4.30      | 25       | 09/05/2023 15:42 | <a href="#">WG2126379</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9         |           |           | 77.0-120  |          | 09/05/2023 15:42 | <a href="#">WG2126379</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.715        |           | 0.000803  | 0.00172   | 1        | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| Toluene                   | 0.0127       |           | 0.00223   | 0.00859   | 1        | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| Ethylbenzene              | 0.206        |           | 0.00127   | 0.00430   | 1        | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| Total Xylenes             | 0.0340       |           | 0.00151   | 0.0112    | 1        | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 99.5         |           |           | 75.0-131  |          | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           | 67.0-138  |          | 09/01/2023 08:17 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 87.4         |           |           | 70.0-130  |          | 09/01/2023 08:17 | <a href="#">WG2125035</a> |



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 79.4   |           | 1        | 09/04/2023 06:23 | <a href="#">WG2126048</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 7590         |           | 134       | 395       | 2500     | 09/07/2023 16:07 | <a href="#">WG2128172</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 109          |           |           | 77.0-120  |          | 09/07/2023 16:07 | <a href="#">WG2128172</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 3.49         |           | 0.00590   | 0.0126    | 8        | 09/01/2023 09:52 | <a href="#">WG2125035</a> |
| Toluene                   | 64.9         |           | 0.821     | 3.16      | 400      | 09/06/2023 21:35 | <a href="#">WG2127231</a> |
| Ethylbenzene              | 54.8         |           | 0.466     | 1.58      | 400      | 09/06/2023 21:35 | <a href="#">WG2127231</a> |
| Total Xylenes             | 333          |           | 0.556     | 4.10      | 400      | 09/06/2023 21:35 | <a href="#">WG2127231</a> |
| (S) Toluene-d8            | 97.2         |           |           | 75.0-131  |          | 09/01/2023 09:52 | <a href="#">WG2125035</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 09/06/2023 21:35 | <a href="#">WG2127231</a> |
| (S) 4-Bromofluorobenzene  | 97.2         |           |           | 67.0-138  |          | 09/01/2023 09:52 | <a href="#">WG2125035</a> |
| (S) 4-Bromofluorobenzene  | 99.7         |           |           | 67.0-138  |          | 09/06/2023 21:35 | <a href="#">WG2127231</a> |
| (S) 1,2-Dichloroethane-d4 | 73.6         |           |           | 70.0-130  |          | 09/01/2023 09:52 | <a href="#">WG2125035</a> |
| (S) 1,2-Dichloroethane-d4 | 91.1         |           |           | 70.0-130  |          | 09/06/2023 21:35 | <a href="#">WG2127231</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 48.6   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 59.7         |           | 2.85      | 8.40      | 28       | 09/03/2023 01:58 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 78.1         |           |           | 77.0-120  |          | 09/03/2023 01:58 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.645        |           | 0.00157   | 0.00336   | 1.12     | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| Toluene                   | 0.0137       | J         | 0.00438   | 0.0168    | 1.12     | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.0498       |           | 0.00248   | 0.00840   | 1.12     | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.552        |           | 0.00296   | 0.0218    | 1.12     | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 92.9         |           |           | 75.0-131  |          | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 93.9         |           |           | 67.0-138  |          | 09/01/2023 13:47 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 115          |           |           | 70.0-130  |          | 09/01/2023 13:47 | <a href="#">WG2125293</a> |

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.0   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 6.26         |           | 1.42      | 4.18      | 25       | 09/03/2023 02:21 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.0         |           |           | 77.0-120  |          | 09/03/2023 02:21 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00385      |           | 0.000782  | 0.00167   | 1        | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| Toluene                   | 0.0961       |           | 0.00218   | 0.00837   | 1        | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.0300       |           | 0.00123   | 0.00418   | 1        | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.708        |           | 0.00147   | 0.0109    | 1        | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 88.2         |           |           | 75.0-131  |          | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 87.8         |           |           | 67.0-138  |          | 09/01/2023 14:06 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 110          |           |           | 70.0-130  |          | 09/01/2023 14:06 | <a href="#">WG2125293</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 79.4   |           | 1        | 09/04/2023 07:11     | <a href="#">WG2126049</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 2.70               | J         | 1.33            | 3.93            | 25       | 09/03/2023 02:44     | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8               |           |                 | 77.0-120        |          | 09/03/2023 02:44     | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.00111            | J         | 0.000733        | 0.00157         | 1        | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| Toluene                   | 0.00473            | J         | 0.00204         | 0.00785         | 1        | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.00209            | J         | 0.00116         | 0.00393         | 1        | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.0134             |           | 0.00138         | 0.0102          | 1        | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 95.0               |           |                 | 75.0-131        |          | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 91.8               |           |                 | 67.0-138        |          | 09/01/2023 14:26     | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 111                |           |                 | 70.0-130        |          | 09/01/2023 14:26     | <a href="#">WG2125293</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 75.5   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 18.9         |           | 1.44      | 4.26      | 25       | 09/03/2023 03:07 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.2         |           |           | 77.0-120  |          | 09/03/2023 03:07 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.156        |           | 0.000796  | 0.00170   | 1        | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| Toluene                   | 0.440        |           | 0.00221   | 0.00852   | 1        | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.336        |           | 0.00126   | 0.00426   | 1        | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| Total Xylenes             | 3.36         |           | 0.00150   | 0.0111    | 1        | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 89.8         |           |           | 75.0-131  |          | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 89.0         |           |           | 67.0-138  |          | 09/01/2023 14:46 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 114          |           |           | 70.0-130  |          | 09/01/2023 14:46 | <a href="#">WG2125293</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 78.7   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5.22         |           | 1.36      | 4.01      | 25       | 09/03/2023 03:30 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 87.4         |           |           | 77.0-120  |          | 09/03/2023 03:30 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00742      |           | 0.000748  | 0.00160   | 1        | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| Toluene                   | 0.0665       |           | 0.00208   | 0.00801   | 1        | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.0111       |           | 0.00118   | 0.00401   | 1        | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.287        |           | 0.00141   | 0.0104    | 1        | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 92.1         |           |           | 75.0-131  |          | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 87.9         |           |           | 67.0-138  |          | 09/01/2023 15:05 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 116          |           |           | 70.0-130  |          | 09/01/2023 15:05 | <a href="#">WG2125293</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 77.5   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 3.49         | J         | 1.38      | 4.08      | 25       | 09/03/2023 03:53 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.0         |           |           | 77.0-120  |          | 09/03/2023 03:53 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00139      | J         | 0.000761  | 0.00163   | 1        | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| Toluene                   | 0.00256      | J         | 0.00212   | 0.00815   | 1        | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.00287      | J         | 0.00120   | 0.00408   | 1        | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.00732      | J         | 0.00143   | 0.0106    | 1        | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 90.6         |           |           | 75.0-131  |          | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 86.9         |           |           | 67.0-138  |          | 09/01/2023 15:25 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 116          |           |           | 70.0-130  |          | 09/01/2023 15:25 | <a href="#">WG2125293</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 80.7   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

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

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 5.44         |           | 1.29      | 3.79      | 25       | 09/03/2023 04:17 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.8         |           |           | 77.0-120  |          | 09/03/2023 04:17 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00488      |           | 0.000708  | 0.00152   | 1        | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| Toluene                   | 0.0524       |           | 0.00197   | 0.00758   | 1        | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.0667       |           | 0.00112   | 0.00379   | 1        | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| Total Xylenes             | 1.17         |           | 0.00133   | 0.00985   | 1        | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 89.7         |           |           | 75.0-131  |          | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 91.5         |           |           | 67.0-138  |          | 09/01/2023 15:45 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 108          |           |           | 70.0-130  |          | 09/01/2023 15:45 | <a href="#">WG2125293</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 84.6   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 21.7         |           | 1.18      | 3.48      | 25       | 09/03/2023 04:40 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 89.0         |           |           | 77.0-120  |          | 09/03/2023 04:40 | <a href="#">WG2125898</a> |

3 Ss

4 Cn

5 Sr

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.00348      |           | 0.000649  | 0.00139   | 1        | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| Toluene                   | 0.0225       |           | 0.00181   | 0.00695   | 1        | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.0466       |           | 0.00102   | 0.00348   | 1        | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| Total Xylenes             | 0.435        |           | 0.00122   | 0.00904   | 1        | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 92.2         |           |           | 75.0-131  |          | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 86.6         |           |           | 67.0-138  |          | 09/01/2023 16:05 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 115          |           |           | 70.0-130  |          | 09/01/2023 16:05 | <a href="#">WG2125293</a> |

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 09/06/2023 12:09        | <a href="#">WG2127150</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5           |           |             | 78.0-120    |          | 09/06/2023 12:09        | <a href="#">WG2127150</a> |

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

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0941      | 1.00        | 1        | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| Toluene                   | U              |           | 0.278       | 1.00        | 1        | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| Ethylbenzene              | U              |           | 0.137       | 1.00        | 1        | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| Total Xylenes             | U              |           | 0.174       | 3.00        | 1        | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| (S) Toluene-d8            | 111            |           |             | 80.0-120    |          | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| (S) 4-Bromofluorobenzene  | 86.0           |           |             | 77.0-126    |          | 09/05/2023 21:13        | <a href="#">WG2126979</a> |
| (S) 1,2-Dichloroethane-d4 | 115            |           |             | 70.0-130    |          | 09/05/2023 21:13        | <a href="#">WG2126979</a> |

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 84.1   |           | 1        | 09/04/2023 07:11 | <a href="#">WG2126049</a> |

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 17.8         |           | 1.20      | 3.53      | 25       | 09/03/2023 05:03 | <a href="#">WG2125898</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.7         |           |           | 77.0-120  |          | 09/03/2023 05:03 | <a href="#">WG2125898</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene                   | 0.130        |           | 0.000659  | 0.00141   | 1        | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| Toluene                   | 0.277        |           | 0.00183   | 0.00705   | 1        | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| Ethylbenzene              | 0.254        |           | 0.00104   | 0.00353   | 1        | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| Total Xylenes             | 2.84         |           | 0.00124   | 0.00917   | 1        | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| (S) Toluene-d8            | 91.9         |           |           | 75.0-131  |          | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| (S) 4-Bromofluorobenzene  | 88.6         |           |           | 67.0-138  |          | 09/01/2023 16:24 | <a href="#">WG2125293</a> |
| (S) 1,2-Dichloroethane-d4 | 114          |           |           | 70.0-130  |          | 09/01/2023 16:24 | <a href="#">WG2125293</a> |

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

Method Blank (MB)

(MB) R3969008-1 09/04/23 06:23

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00200   |              |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1652399-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1652399-03 09/04/23 06:23 • (DUP) R3969008-3 09/04/23 06:23

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 77.7            | 77.6       | 1        | 0.0772  |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3969008-2 09/04/23 06:23

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 99.9     | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3969024-1 09/04/23 07:11

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

L1650994-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1650994-17 09/04/23 07:11 • (DUP) R3969024-3 09/04/23 07:11

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 84.1            | 77.4       | 1        | 8.31    |               | 10             |

<sup>4</sup>Cn

<sup>5</sup>Sr

Laboratory Control Sample (LCS)

(LCS) R3969024-2 09/04/23 07:11

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3968953-2 09/02/23 01:31

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | U                  |              | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 104                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3968953-1 09/02/23 00:33

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 6.47                | 118           | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 115           | 77.0-120         |               |

L1650781-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650781-20 09/02/23 07:09 • (MS) R3968953-3 09/02/23 10:12 • (MSD) R3968953-4 09/02/23 10:30

| Analyte                            | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 202                         | 57.4                           | 284                      | 286                       | 112          | 113           | 25       | 50.0-150         |              |               | 0.651    | 27              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                             |                                |                          |                           | 113          | 113           |          | 77.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3970202-2 09/02/23 21:30

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range Organics-NWTPH      | U                  |              | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.4               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3970202-1 09/02/23 19:24

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5.50                  | 4.53                | 82.4          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 97.5          | 77.0-120         |               |

L1650994-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650994-09 09/03/23 02:21 • (MS) R3970202-3 09/03/23 05:49 • (MSD) R3970202-4 09/03/23 06:12

| Analyte                            | Spike Amount (dry)<br>mg/kg | Original Result (dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result (dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Gasoline Range Organics-NWTPH      | 184                         | 6.26                           | 167                      | 166                       | 87.3         | 87.0          | 25       | 50.0-150         |              |               | 0.402    | 27              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                             |                                |                          |                           | 99.7         | 98.8          |          | 77.0-120         |              |               |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3969881-2 09/05/23 13:03

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 2.35               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 95.9               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3969881-1 09/05/23 11:43

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 5.41                | 98.4          | 71.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 100           | 77.0-120         |               |

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

Method Blank (MB)

(MB) R3970676-3 09/07/23 15:13

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 1.09               | ↓            | 0.848           | 2.50            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 108                |              |                 | 77.0-120        |

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

(LCS) R3970676-1 09/07/23 13:51 • (LCSD) R3970676-2 09/07/23 14:10

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Gasoline Range<br>Organics-NWTPH   | 5.50                  | 6.10                | 5.95                 | 111           | 108            | 71.0-124         |               |                | 2.49     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 112           | 110            | 77.0-120         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3970187-2 09/06/23 11:32

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.4              |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3970187-1 09/06/23 10:20

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5120               | 93.1          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 99.9          | 78.0-120         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3968654-3 09/01/23 03:32

| Analyte                          | MB Result | MB Qualifier | MB MDL   | MB RDL   |
|----------------------------------|-----------|--------------|----------|----------|
|                                  | mg/kg     |              | mg/kg    | 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  |
| <i>(S) Toluene-d8</i>            | 99.4      |              |          | 75.0-131 |
| <i>(S) 4-Bromofluorobenzene</i>  | 101       |              |          | 67.0-138 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 90.3      |              |          | 70.0-130 |

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

(LCS) R3968654-1 09/01/23 01:57 • (LCSD) R3968654-2 09/01/23 02:16

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                  | mg/kg        | mg/kg      | mg/kg       | %        | %         | %           |               |                | %     | %          |
| Benzene                          | 0.125        | 0.131      | 0.129       | 105      | 103       | 70.0-123    |               |                | 1.54  | 20         |
| Toluene                          | 0.125        | 0.110      | 0.113       | 88.0     | 90.4      | 75.0-121    |               |                | 2.69  | 20         |
| Ethylbenzene                     | 0.125        | 0.109      | 0.111       | 87.2     | 88.8      | 74.0-126    |               |                | 1.82  | 20         |
| Total Xylenes                    | 0.375        | 0.318      | 0.316       | 84.8     | 84.3      | 72.0-127    |               |                | 0.631 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 95.4     | 97.2      | 75.0-131    |               |                |       |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 101      | 102       | 67.0-138    |               |                |       |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 100      | 101       | 70.0-130    |               |                |       |            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3969791-3 09/01/23 10:24

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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            | 93.8               |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 88.9               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 115                |              |                 | 70.0-130        |

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

(LCS) R3969791-1 09/01/23 08:45 • (LCSD) R3969791-2 09/01/23 09:05

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.149               | 0.137                | 119           | 110            | 70.0-123         |               |                | 8.39     | 20              |
| Toluene                   | 0.125                 | 0.117               | 0.109                | 93.6          | 87.2           | 75.0-121         |               |                | 7.08     | 20              |
| Ethylbenzene              | 0.125                 | 0.114               | 0.103                | 91.2          | 82.4           | 74.0-126         |               |                | 10.1     | 20              |
| Total Xylenes             | 0.375                 | 0.310               | 0.294                | 82.7          | 78.4           | 72.0-127         |               |                | 5.30     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 89.5          | 90.7           | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 94.1          | 92.4           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 128           | 125            | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3970075-3 09/06/23 19:52

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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            | 101                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 100                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 90.2               |              |                 | 70.0-130        |

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

(LCS) R3970075-1 09/06/23 18:14 • (LCSD) R3970075-2 09/06/23 18:33

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.117               | 0.113                | 93.6          | 90.4           | 70.0-123         |               |                | 3.48     | 20              |
| Toluene                   | 0.125                 | 0.118               | 0.116                | 94.4          | 92.8           | 75.0-121         |               |                | 1.71     | 20              |
| Ethylbenzene              | 0.125                 | 0.119               | 0.118                | 95.2          | 94.4           | 74.0-126         |               |                | 0.844    | 20              |
| Total Xylenes             | 0.375                 | 0.351               | 0.346                | 93.6          | 92.3           | 72.0-127         |               |                | 1.43     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 102           | 102            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 95.8          | 96.8           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 89.1          | 89.1           | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3969845-3 09/05/23 19:59

| Analyte                          | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|----------------------------------|-------------------|--------------|----------------|----------------|
| Benzene                          | U                 |              | 0.0941         | 1.00           |
| Toluene                          | U                 |              | 0.278          | 1.00           |
| Ethylbenzene                     | U                 |              | 0.137          | 1.00           |
| Total Xylenes                    | U                 |              | 0.174          | 3.00           |
| <i>(S) Toluene-d8</i>            | 108               |              |                | 80.0-120       |
| <i>(S) 4-Bromofluorobenzene</i>  | 90.2              |              |                | 77.0-126       |
| <i>(S) 1,2-Dichloroethane-d4</i> | 115               |              |                | 70.0-130       |

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

(LCS) R3969845-1 09/05/23 18:34 • (LCSD) R3969845-2 09/05/23 19:38

| Analyte                          | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                          | 5.00                 | 5.74               | 5.03                | 115           | 101            | 70.0-123         |               |                | 13.2     | 20              |
| Toluene                          | 5.00                 | 5.10               | 4.69                | 102           | 93.8           | 79.0-120         |               |                | 8.38     | 20              |
| Ethylbenzene                     | 5.00                 | 4.58               | 4.40                | 91.6          | 88.0           | 79.0-123         |               |                | 4.01     | 20              |
| Total Xylenes                    | 15.0                 | 14.0               | 13.1                | 93.3          | 87.3           | 79.0-123         |               |                | 6.64     | 20              |
| <i>(S) Toluene-d8</i>            |                      |                    |                     | 103           | 105            | 80.0-120         |               |                |          |                 |
| <i>(S) 4-Bromofluorobenzene</i>  |                      |                    |                     | 90.9          | 91.9           | 77.0-126         |               |                |          |                 |
| <i>(S) 1,2-Dichloroethane-d4</i> |                      |                    |                     | 109           | 108            | 70.0-130         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VO CGC15 • File ID: 0906\_03

09/06/23 09:57

| Sample ID                     | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|---------|---------------------------------|---------------------------------|
| Standard                      | 0906_03 | 186928800                       | 28142                           |
| Upper Limit                   |         | 373857600                       | 56284                           |
| Lower Limit                   |         | 93464400                        | 14071                           |
| LCS R3970187-1 WG2127150 1x   | 0906_04 | 213124200                       | 103954                          |
| BLANK R3970187-2 WG2127150 1x | 0906_06 | 183201700                       | 73105                           |
| L1650994-16 WG2127150 1x      | 0906_07 | 199605000                       | 39319                           |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS6 • File ID: 0905\_24-2

09/05/23 18:34

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0905_24-2  | 270413                         | 141311                            | 135507                                  |
| Upper Limit                   |            | 540826                         | 282622                            | 271014                                  |
| Lower Limit                   |            | 135207                         | 70656                             | 67754                                   |
| LCS R3969845-1 WG2126979 1x   | 0905_24LCS | 270413                         | 141311                            | 135507                                  |
| LCSD R3969845-2 WG2126979 1x  | 0905_27    | 273099                         | 140317                            | 136127                                  |
| BLANK R3969845-3 WG2126979 1x | 0905_28    | 274156                         | 129703                            | 118320                                  |
| L1650994-16 WG2126979 1x      | 0905_31    | 263327                         | 122810                            | 107746                                  |

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

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC1 • File ID: 0905\_06

09/05/23 11:18

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0905_06 | 2185013                         | 4119241                         |
| Upper Limit                    |         | 4370026                         | 8238482                         |
| Lower Limit                    |         | 1092507                         | 2059621                         |
| LCS R3969881-1 WG2126379 1x    | 0905_07 | 2225799                         | 4195013                         |
| BLANK R3969881-2 WG2126379 25x | 0905_10 | 2123828                         | 4215029                         |
| L1650994-03 WG2126379 25x      | 0905_13 | 2104998                         | 4120482                         |
| L1650994-04 WG2126379 25x      | 0905_14 | 2176838                         | 4295371                         |
| L1650994-06 WG2126379 25x      | 0905_15 | 2133217                         | 4220677                         |
| L1650994-01 WG2126379 1000x    | 0905_16 | 2114955                         | 4015499                         |
| L1650994-02 WG2126379 500x     | 0905_17 | 2158768                         | 4121502                         |

## Instrument: VOCGC15 • File ID: 0902\_03

09/02/23 19:01

| Sample ID                      | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|---------|---------------------------------|---------------------------------|
| Standard                       | 0902_03 | 183941300                       | 39415                           |
| Upper Limit                    |         | 367882600                       | 78830                           |
| Lower Limit                    |         | 91970650                        | 19708                           |
| LCS R3970202-1 WG2125898 1x    | 0902_04 | 215015400                       | 215760                          |
| BLANK R3970202-2 WG2125898 25x | 0902_07 | 190502200                       | 78140                           |
| L1650994-08 WG2125898 28x      | 0902_18 | 249284800                       | 151293                          |
| L1650994-09 WG2125898 25x      | 0902_19 | 181688200                       | 86701                           |
| L1650994-10 WG2125898 25x      | 0902_20 | 177423600                       | 93171                           |
| L1650994-11 WG2125898 25x      | 0902_21 | 189021800                       | 199619                          |
| L1650994-12 WG2125898 25x      | 0902_22 | 192013100                       | 63465                           |
| L1650994-13 WG2125898 25x      | 0902_23 | 185351500                       | 62778                           |
| L1650994-14 WG2125898 25x      | 0902_24 | 202335700                       | 57632                           |
| L1650994-15 WG2125898 25x      | 0902_25 | 175292900                       | 69912                           |
| L1650994-17 WG2125898 25x      | 0902_26 | 185423200                       | 97217                           |
| MS R3970202-3 WG2125898 25x    | 0902_28 | 215037500                       | 43465                           |
| MSD R3970202-4 WG2125898 25x   | 0902_29 | 215360200                       | 109196                          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

## Instrument: VOCGC17 • File ID: 0901A\_30

09/02/23 00:14

| Sample ID                      | File ID   | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|-----------|---------------------------------|---------------------------------|
| Standard                       | 0901A_30  | 225390900                       | 36275690                        |
| Upper Limit                    |           | 450781800                       | 72551380                        |
| Lower Limit                    |           | 112695400                       | 18137840                        |
| LCS R3968953-1 WG2125620 1x    | 0901A_31B | 223982600                       | 51431890                        |
| BLANK R3968953-2 WG2125620 25x | 0901A_34u | 215843700                       | 215843700                       |
| L1650994-05 WG2125620 25x      | 0901A_58  | 188052700                       | 188052700                       |
| MS R3968953-3 WG2125620 25x    | 0901A_62  | 217793100                       | 217793100                       |
| MSD R3968953-4 WG2125620 25x   | 0901A_63  | 220125100                       | 220125100                       |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Instrument: VOCGC17 • File ID: 0907\_03

09/07/23 13:33

| Sample ID                      | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|--------------------------------|----------|---------------------------------|---------------------------------|
| Standard                       | 0907_03  | 220837500                       | 220837500                       |
| Upper Limit                    |          | 441675000                       | 441675000                       |
| Lower Limit                    |          | 110418800                       | 110418800                       |
| LCS R3970676-1 WG2128172 1x    | 0907_04B | 225643200                       | 225643200                       |
| LCSD R3970676-2 WG2128172 1x   | 0907_05B | 232532400                       | 232532400                       |
| BLANK R3970676-3 WG2128172 25x | 0907_07A | 189171500                       | 189171500                       |
| L1650994-07 WG2128172 2500x    | 0907_10  | 202031000                       | 202031000                       |

# INTERNAL STANDARD SUMMARY

## Instrument: VOCMS37 • File ID: 0901\_02-2

09/01/23 08:45

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0901_02-2  | 400923.50                      | 207209.30                         | 155078.10                               |
| Upper Limit                   |            | 801847                         | 414419                            | 310156                                  |
| Lower Limit                   |            | 200462                         | 103605                            | 77539                                   |
| LCS R3969791-1 WG2125293 1x   | 0901_02LCS | 400923.50                      | 207209.30                         | 155078.10                               |
| LCSD R3969791-2 WG2125293 1x  | 0901_03    | 417895.50                      | 215188.50                         | 154453.50                               |
| BLANK R3969791-3 WG2125293 1x | 0901_07    | 416050.60                      | 212951.80                         | 154291.80                               |
| L1650994-08 WG2125293 1.12x   | 0901_14    | 412915.20                      | 203767.80                         | 152189.60                               |
| L1650994-09 WG2125293 1x      | 0901_15    | 419537.90                      | 212008.50                         | 149076.20                               |
| L1650994-10 WG2125293 1x      | 0901_16    | 397943.60                      | 191364.70                         | 138148.40                               |
| L1650994-11 WG2125293 1x      | 0901_17    | 387326.10                      | 197218.90                         | 147230.90                               |
| L1650994-12 WG2125293 1x      | 0901_18    | 387479                         | 205577.50                         | 143066.90                               |
| L1650994-13 WG2125293 1x      | 0901_19    | 404150.30                      | 207917.80                         | 149282.20                               |
| L1650994-14 WG2125293 1x      | 0901_20    | 400203.20                      | 201398.70                         | 153419.60                               |
| L1650994-15 WG2125293 1x      | 0901_21    | 404616.30                      | 202761.50                         | 151318.70                               |
| L1650994-17 WG2125293 1x      | 0901_22    | 403825.70                      | 209818.80                         | 149872.30                               |

## Instrument: VOCMS40 • File ID: 0901\_02-1

09/01/23 01:57

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0901_02-1  | 781502.30                      | 385431.90                         | 334675.60                               |
| Upper Limit                   |            | 1563005                        | 770864                            | 669351                                  |
| Lower Limit                   |            | 390751                         | 192716                            | 167338                                  |
| LCS R3968654-1 WG2125035 1x   | 0901_02LCS | 781502.30                      | 385431.90                         | 334675.60                               |
| LCSD R3968654-2 WG2125035 1x  | 0901_03    | 755548.50                      | 368673.60                         | 326743.30                               |
| BLANK R3968654-3 WG2125035 1x | 0901_07    | 798030.20                      | 374238.90                         | 316101.60                               |
| L1650994-02 WG2125035 1x      | 0901_18    | 840158.50                      | 401231.30                         | 338596.80                               |
| L1650994-03 WG2125035 1x      | 0901_19    | 865222.40                      | 419222.10                         | 354553.30                               |
| L1650994-04 WG2125035 1x      | 0901_20    | 845779.60                      | 407713                            | 348108.50                               |
| L1650994-06 WG2125035 1x      | 0901_22    | 859867.40                      | 406858.60                         | 350341                                  |
| L1650994-01 WG2125035 8x      | 0901_26    | 869506.60                      | 410789.80                         | 347615.30                               |
| L1650994-07 WG2125035 8x      | 0901_27    | 889994.70                      | 418065.60                         | 358131.40                               |



# INTERNAL STANDARD SUMMARY

Instrument: VOCMS53 • File ID: 0906\_29-2

09/06/23 18:14

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0906_29-2   | 549055.80                      | 240389.40                         | 228923.70                               |
| Upper Limit                   |             | 1098112                        | 480779                            | 457847                                  |
| Lower Limit                   |             | 274528                         | 120195                            | 114462                                  |
| LCS R3970075-1 WG2127231 1x   | 0906_29LCSA | 549055.80                      | 240389.40                         | 228923.70                               |
| LCSD R3970075-2 WG2127231 1x  | 0906_30A    | 582565.10                      | 249668.10                         | 236755.40                               |
| BLANK R3970075-3 WG2127231 1x | 0906_34A    | 522610.70                      | 213910                            | 210271.40                               |
| L1650994-05 WG2127231 1x      | 0906_35     | 548472.20                      | 217576.80                         | 214477.30                               |
| L1650994-03 WG2127231 20x     | 0906_36     | 546153.70                      | 233052.30                         | 219728.60                               |
| L1650994-02 WG2127231 40x     | 0906_37     | 520060.90                      | 218726.60                         | 218552.70                               |
| L1650994-01 WG2127231 400x    | 0906_38     | 539106.30                      | 222092.70                         | 222371                                  |
| L1650994-07 WG2127231 400x    | 0906_39     | 531994.70                      | 219587                            | 219185.70                               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| MDL (dry)                    | Method Detection Limit.  |
| 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   |
|-----------|---|
| B         | The same analyte is found in the associated blank.                                  |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Analysis / Container / Preservative

|                      |                            |                              |                       |                            |                            |                                |                             |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
| EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|

Chain of Custody Page 1 of 2  
  
**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/hubs/pas-standard-terms.pdf>

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
 Collected: **Westport, WA**

Please Circle:  
 MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
*Paul Sorey*

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Sorey*

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

Quote #

Immediately Packed on Ice N  Y

Date Results Needed  
**STD**

No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| D4-FL-15  | G         | SS       | 15    | 8/28/23 | 0530 | 3            |
| E4-FL-15  | G         | SS       | 15    | 8/28/23 | 0540 | 3            |
| F4-FL-15  | G         | SS       | 15    | 8/28/23 | 0550 | 3            |
| F4-SW3-12 | G         | SS       | 12    | 8/28/23 | 0600 | 3            |
| SP-SI-13  | G         | SS       | -     | 8/28/23 | 0615 | 3            |
| F3-FL-15  | G         | SS       | 15    | 8/28/23 | 0625 | 3            |
| E3-FL-15  | G         | SS       | 15    | 8/28/23 | 0635 | 3            |
| F3-SW3-12 | G         | SS       | 12    | 8/28/23 | 0645 | 3            |
| E2-FL-15  | G         | SS       | 15    | 8/28/23 | 0735 | 3            |
| F2-FL-15  | G         | SS       | 15    | 8/28/23 | 0745 | 3            |

|                      |                            |                              |                       |                            |                            |                                |                             |
|----------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|-----------------------------|
| EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr | VPH WA 40mlAmb/MeOH10ml/Syr |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |
|                      |                            | X                            |                       |                            | X                          | X                              |                             |

SDG # **L1658994**  
**G039**

Acctnum: **STANTECBWA**  
 Template: **T234672**  
 Prelogin: **P1013674**  
 PM: **546 - Jared Starkey**  
 PB: **7/26/23 CAN**

Shipped Via: **FedEX Standard**

| 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 # **6846 8244 8791**

Sample Receipt Checklist  
 COC Seal Present/Intact:  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)  
*Paul M. Sorey*  
 Date: **8/28/23**  
 Time: **1530**

Received by: (Signature)  
**FedEx**  
 Trip Blank Received:  Yes  No  
 HCL/MeOH TBR

Temp: **9.8°C**  
 Bottles Received: **48**

If preservation required by Login: Date/Time

Relinquished by: (Signature)  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received for lab by: (Signature)  
 Date: **8-28-23** Time: **0900**  
 Hold: \_\_\_\_\_ Condition: **NCF / OK**

Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Pres  
 Chk

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
 Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**146751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Sonny**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Sonny*

**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  
**(STD)**

Immediately  
 Packed on Ice N  Y

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| E2-SW2-13 | G         | SS       | 13    | 8/28/23 | 0900 | 3-           |
| F2-SW2-15 | G         | SS       | 15    | 8/28/23 | 0910 | 3-           |
| F2-SW3-12 | G         | SS       | 12    | 8/28/23 | 0920 | 3-           |
| SP-SI-14  | G         | SS       | -     | 8/28/23 | 0940 | 3-           |
| SP-SI-15  | G         | SS       | 15    | 8/28/23 | 0945 | 3-           |
| TB-01     | -         | SS       | -     | 8/28/23 | -    | 2            |
| Dup-06    | G         | SS       | -     | 8/28/23 | -    | 3-           |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |

| Analysis / Container / Preservative |                            |                              |                       |                            |                            |                                |
|-------------------------------------|----------------------------|------------------------------|-----------------------|----------------------------|----------------------------|--------------------------------|
| EPH WA 4ozAmb-NoPres                | NWTPHDXNOSGT 4ozClr-NoPres | NWTPHGX 40mlAmb/MeOH10ml/Syr | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mlAmb/MeOH10ml/Syr |
|                                     |                            |                              |                       |                            |                            | VPH WA 40mlAmb/MeOH10ml/Syr    |

Chain of Custody Page 2 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/hubs/pas-standard-terms.pdf>

SDG # **U65 0994**

Table #

Acctnum: **STANTECBWA**  
 Template: **T234672**  
 Prelogin: **P1013674**  
 PM: **546 - Jared Starkey**  
 PB: **8/29/23 CAM**

Shipped Via: **FedEX Standard**

Remarks Sample # (lab only)

\* 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 # **6641 8744 8791**

**Sample Receipt Checklist**

COC Seal Present/Intact:  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)  
*Paul M. Sonny*

Date: **8/29/23**  
 Time: **1530**

Received by: (Signature)  
**FedEx**

Trip Blank Received:  Yes  No  
 HCL/MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: (Signature)

Temp: **5.30°C**  
 Substrate: **0.5g**  
 Bottles Received: **48**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received for lab by: (Signature)  
**(Signature)**

Date: **8-29-23**  
 Time: **09**

Hold: \_\_\_\_\_  
 Condition: **NCF / OK**

# APPENDIX J

## Groundwater Discharge Laboratory Analytical Reports



**Stantec- Bellevue, WA**

Sample Delivery Group: L1645973  
Samples Received: 08/15/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## DC-1 L1645973-01 GW

Collected by: Paul Janney  
 Collected date/time: 08/14/23 13:00  
 Received date/time: 08/15/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Metals (ICP) by Method 6010D                                  | WG2114581 | 1        | 08/15/23 18:33        | 08/16/23 12:05     | ZSA     | Mt. Juliet, TN |
| Volatile Petroleum Hydrocarbons by Method VPHWA               | WG2115527 | 1        | 08/17/23 04:25        | 08/17/23 04:25     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2114809 | 1        | 08/16/23 02:08        | 08/16/23 02:08     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2114724 | 1        | 08/15/23 20:41        | 08/15/23 20:41     | ADM     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2114107 | 1        | 08/15/23 17:10        | 08/16/23 13:37     | TJD     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2115338 | 1        | 08/16/23 06:58        | 08/18/23 12:27     | DMG     | Mt. Juliet, TN |
| TPH by Method EPH   | WG2115338 | 1        | 08/16/23 06:58        | 08/18/23 12:49     | DMG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2114486 | 1        | 08/15/23 17:22        | 08/16/23 03:26     | AGW     | Mt. Juliet, TN |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

## TB-01 L1645973-02 GW

Collected by: Paul Janney  
 Collected date/time: 08/14/23 00:00  
 Received date/time: 08/15/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2114809 | 1        | 08/16/23 01:47        | 08/16/23 01:47     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2114724 | 1        | 08/15/23 20:22        | 08/15/23 20:22     | ADM     | Mt. Juliet, TN |

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Jared Starkey  
Project Manager



## Volatile Petroleum Hydrocarbons by Method VPHWA

---

The same analyte is found in the associated blank.

| Batch     | Analyte                     | Lab Sample ID |
|-----------|-----------------------------|---------------|
| WG2115527 | Adjusted C6-C8 Aliphatics   | L1645973-01   |
| WG2115527 | Unadjusted C6-C8 Aliphatics | L1645973-01   |

## TPH by Method EPH

---

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte             | Lab Sample ID                  |
|-----------|---------------------|--------------------------------|
| WG2115338 | 1-Chloro-octadecane | (LCSD) R3962490-3, L1645973-01 |
| WG2115338 | o-Terphenyl         | L1645973-01                    |

The same analyte is found in the associated blank.

| Batch     | Analyte            | Lab Sample ID |
|-----------|--------------------|---------------|
| WG2115338 | C21-C34 ALIPHATICS | L1645973-01   |
| WG2115338 | C21-C34 Aromatics  | L1645973-01   |

The associated batch QC was below the established quality control range for accuracy.

| Batch     | Lab Sample ID   | Analytes                                 |
|-----------|---|--|
| WG2115338 | (LCS) R3962490-2, (LCSD) R3962490-3, (LCSD) R3962490-6, L1645973-01 | C10-C12 Aliphatics and C10-C12 Aromatics |

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

---

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte     | Lab Sample ID |
|-----------|-------------|---------------|
| WG2114107 | o-Terphenyl | L1645973-01   |

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

---

Surrogate recovery limits have been exceeded; values are outside lower control limits.

| Batch     | Analyte         | Lab Sample ID |
|-----------|-----------------|---------------|
| WG2114486 | p-Terphenyl-d14 | L1645973-01   |

## Metals (ICP) by Method 6010D

| Analyte | Result | Qualifier | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|------|------|----------|------------------|---------------------------|
|         | ug/l   |           | ug/l | ug/l |          | date / time      |                           |
| Lead    | U      |           | 2.99 | 6.00 | 1        | 08/16/2023 12:05 | <a href="#">WG2114581</a> |

## Volatile Petroleum Hydrocarbons by Method VPHWA

| Analyte                      | Result | Qualifier           | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|------------------------------|--------|---------------------|------|----------|----------|------------------|---------------------------|
|                              | ug/l   |                     | ug/l | ug/l     |          | date / time      |                           |
| Unadjusted C5-C6 Aliphatics  | U      |                     | 33.3 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| Adjusted C5-C6 Aliphatics    | U      |                     | 33.3 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| Unadjusted C6-C8 Aliphatics  | 9.05   | <a href="#">B J</a> | 6.88 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| Adjusted C6-C8 Aliphatics    | 8.96   | <a href="#">B J</a> | 6.88 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| Unadjusted C8-C10 Aliphatics | U      |                     | 33.3 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| Adjusted C8-C10 Aliphatics   | U      |                     | 33.3 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| C8-C10 Aromatics             | U      |                     | 18.0 | 100      | 1        | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| (S) 2,5-Dibromotoluene(FID)  | 102    |                     |      | 60.0-140 |          | 08/17/2023 04:25 | <a href="#">WG2115527</a> |
| (S) 2,5-Dibromotoluene(PID)  | 94.2   |                     |      | 60.0-140 |          | 08/17/2023 04:25 | <a href="#">WG2115527</a> |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/16/2023 02:08 | <a href="#">WG2114809</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103    |           |      | 78.0-120 |          | 08/16/2023 02:08 | <a href="#">WG2114809</a> |

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

| Analyte                   | Result | Qualifier         | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-------------------|--------|----------|----------|------------------|---------------------------|
|                           | ug/l   |                   | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                   | 0.0920 |                   | 0.0160 | 0.0400   | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| Ethylbenzene              | 0.326  |                   | 0.0212 | 0.100    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| Naphthalene               | 0.353  | <a href="#">J</a> | 0.124  | 0.500    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| Toluene                   | 0.445  |                   | 0.0500 | 0.200    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| o-Xylene                  | 0.737  |                   | 0.0400 | 0.100    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| m&p-Xylenes               | 1.64   |                   | 0.0600 | 0.160    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| Xylenes, Total            | 2.38   |                   | 0.191  | 0.260    | 1        | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| (S) Toluene-d8            | 105    |                   |        | 75.0-131 |          | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| (S) 4-Bromofluorobenzene  | 107    |                   |        | 67.0-138 |          | 08/15/2023 20:41 | <a href="#">WG2114724</a> |
| (S) 1,2-Dichloroethane-d4 | 98.6   |                   |        | 70.0-130 |          | 08/15/2023 20:41 | <a href="#">WG2114724</a> |

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

| Analyte                       | Result | Qualifier          | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|-------------------------------|--------|--------------------|------|----------|----------|------------------|---------------------------|
|                               | ug/l   |                    | ug/l | ug/l     |          | date / time      |                           |
| Diesel Range Organics (DRO)   | U      |                    | 66.7 | 200      | 1        | 08/16/2023 13:37 | <a href="#">WG2114107</a> |
| Residual Range Organics (RRO) | U      |                    | 83.3 | 250      | 1        | 08/16/2023 13:37 | <a href="#">WG2114107</a> |
| (S) o-Terphenyl               | 47.7   | <a href="#">J2</a> |      | 52.0-156 |          | 08/16/2023 13:37 | <a href="#">WG2114107</a> |

## Sample Narrative:

L1645973-01 WG2114107: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

## TPH by Method EPH

| Analyte            | Result | Qualifier            | MDL  | RDL  | Dilution | Analysis         | Batch                     |
|--------------------|--------|----------------------|------|------|----------|------------------|---------------------------|
|                    | ug/l   |                      | ug/l | ug/l |          | date / time      |                           |
| C10-C12 Aliphatics | 17.8   | <a href="#">J J4</a> | 16.7 | 50.0 | 1        | 08/18/2023 12:49 | <a href="#">WG2115338</a> |
| C12-C16 Aliphatics | 26.7   | <a href="#">J</a>    | 16.7 | 50.0 | 1        | 08/18/2023 12:49 | <a href="#">WG2115338</a> |
| C16-C21 ALIPHATICS | U      |                      | 16.7 | 50.0 | 1        | 08/18/2023 12:49 | <a href="#">WG2115338</a> |
| C21-C34 ALIPHATICS | 39.4   | <a href="#">B J</a>  | 16.7 | 50.0 | 1        | 08/18/2023 12:49 | <a href="#">WG2115338</a> |



## TPH by Method EPH

| Analyte                 | Result<br>ug/l | Qualifier  | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|-------------------------|----------------|------------|-------------|-------------|----------|-------------------------|---------------------------|
| C10-C12 Aromatics       | U              | <u>J4</u>  | 16.7        | 50.0        | 1        | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| C12-C16 Aromatics       | U              |            | 16.7        | 50.0        | 1        | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| C16-C21 Aromatics       | 19.7           | <u>J</u>   | 16.7        | 50.0        | 1        | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| C21-C34 Aromatics       | 24.4           | <u>B J</u> | 16.7        | 50.0        | 1        | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| (S) o-Terphenyl         | 61.3           | <u>J2</u>  |             | 70.0-130    |          | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| (S) 1-Chloro-octadecane | 36.3           | <u>J2</u>  |             | 70.0-130    |          | 08/18/2023 12:49        | <a href="#">WG2115338</a> |
| (S) 2-Fluorobiphenyl    | 87.4           |            |             | 70.0-130    |          | 08/18/2023 12:27        | <a href="#">WG2115338</a> |
| (S) 2-Bromonaphthalene  | 87.7           |            |             | 70.0-130    |          | 08/18/2023 12:27        | <a href="#">WG2115338</a> |

## Sample Narrative:

L1645973-01 WG2115338: Sample produced heavy emulsion during Extraction process, low surr/spike recoveries due to matrix

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

| Analyte              | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|----------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Naphthalene          | 0.106          | <u>J</u>  | 0.0917      | 0.250       | 1        | 08/16/2023 03:26        | <a href="#">WG2114486</a> |
| (S) Nitrobenzene-d5  | 94.0           |           |             | 31.0-160    |          | 08/16/2023 03:26        | <a href="#">WG2114486</a> |
| (S) 2-Fluorobiphenyl | 65.0           |           |             | 48.0-148    |          | 08/16/2023 03:26        | <a href="#">WG2114486</a> |
| (S) p-Terphenyl-d14  | 36.5           | <u>J2</u> |             | 37.0-146    |          | 08/16/2023 03:26        | <a href="#">WG2114486</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U              |           | 31.6        | 100         | 1        | 08/16/2023 01:47        | <a href="#">WG2114809</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103            |           |             | 78.0-120    |          | 08/16/2023 01:47        | <a href="#">WG2114809</a> |

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0160      | 0.0400      | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| 1,2-Dichloroethane        | U              |           | 0.0190      | 0.100       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| Ethylbenzene              | U              |           | 0.0212      | 0.100       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| n-Hexane                  | U              |           | 0.0424      | 0.200       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| Methyl tert-butyl ether   | U              |           | 0.0118      | 0.0400      | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| Naphthalene               | U              |           | 0.124       | 0.500       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| Toluene                   | U              |           | 0.0500      | 0.200       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| o-Xylene                  | U              |           | 0.0400      | 0.100       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| m&p-Xylenes               | U              |           | 0.0600      | 0.160       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| Xylenes, Total            | U              |           | 0.191       | 0.260       | 1        | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| (S) Toluene-d8            | 106            |           |             | 75.0-131    |          | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| (S) 4-Bromofluorobenzene  | 105            |           |             | 67.0-138    |          | 08/15/2023 20:22        | <a href="#">WG2114724</a> |
| (S) 1,2-Dichloroethane-d4 | 98.0           |           |             | 70.0-130    |          | 08/15/2023 20:22        | <a href="#">WG2114724</a> |

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

Method Blank (MB)

(MB) R3961490-1 08/16/23 11:45

| Analyte | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|---------|-------------------|--------------|----------------|----------------|
| Lead    | U                 |              | 2.99           | 6.00           |

Laboratory Control Sample (LCS)

(LCS) R3961490-2 08/16/23 11:48

| Analyte | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------|----------------------|--------------------|---------------|------------------|---------------|
| Lead    | 1000                 | 948                | 94.8          | 80.0-120         |               |

L1645894-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1645894-01 08/16/23 11:51 • (MS) R3961490-4 08/16/23 11:57 • (MSD) R3961490-5 08/16/23 11:59

| Analyte | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Lead    | 1000                 | U                       | 950               | 938                | 95.0         | 93.8          | 1        | 75.0-125         |              |               | 1.28     | 20              |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961801-3 08/17/23 02:08

| Analyte                      | MB Result | MB Qualifier | MB MDL | MB RDL   |
|------------------------------|-----------|--------------|--------|----------|
|                              | ug/l      |              | ug/l   | ug/l     |
| Unadjusted C5-C6 Aliphatics  | U         |              | 33.3   | 100      |
| Adjusted C5-C6 Aliphatics    | U         |              | 33.3   | 100      |
| Unadjusted C6-C8 Aliphatics  | 7.06      | U            | 6.88   | 100      |
| Adjusted C6-C8 Aliphatics    | 7.06      | U            | 6.88   | 100      |
| Unadjusted C8-C10 Aliphatics | U         |              | 33.3   | 100      |
| Adjusted C8-C10 Aliphatics   | U         |              | 33.3   | 100      |
| C8-C10 Aromatics             | U         |              | 18.0   | 100      |
| (S) 2,5-Dibromotoluene(FID)  | 98.7      |              |        | 60.0-140 |
| (S) 2,5-Dibromotoluene(PID)  | 92.4      |              |        | 60.0-140 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

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

(LCS) R3961801-1 08/17/23 00:26 • (LCSD) R3961801-2 08/17/23 01:00

| Analyte                      | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                              | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %    | %          |
| Unadjusted C5-C6 Aliphatics  | 600          | 696        | 626         | 116      | 104       | 70.0-130    |               |                | 10.6 | 25         |
| Unadjusted C6-C8 Aliphatics  | 400          | 455        | 414         | 114      | 104       | 70.0-130    |               |                | 9.44 | 25         |
| Unadjusted C8-C10 Aliphatics | 1200         | 1440       | 1350        | 120      | 113       | 70.0-130    |               |                | 6.45 | 25         |
| C8-C10 Aromatics             | 1000         | 1030       | 991         | 103      | 99.1      | 70.0-130    |               |                | 3.86 | 25         |
| (S) 2,5-Dibromotoluene(FID)  |              |            |             | 109      | 103       | 60.0-140    |               |                |      |            |
| (S) 2,5-Dibromotoluene(PID)  |              |            |             | 98.1     | 93.8      | 60.0-140    |               |                |      |            |

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961201-2 08/16/23 01:05

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 105               |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3961201-1 08/16/23 00:21

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5300               | 96.4          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 104           | 78.0-120         |               |

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

Method Blank (MB)

(MB) R3961309-3 08/15/23 19:17

| Analyte                   | MB Result | MB Qualifier | MB MDL | MB RDL   |
|---------------------------|-----------|--------------|--------|----------|
|                           | ug/l      |              | ug/l   | ug/l     |
| Benzene                   | U         |              | 0.0160 | 0.0400   |
| 1,2-Dichloroethane        | U         |              | 0.0190 | 0.100    |
| Ethylbenzene              | U         |              | 0.0212 | 0.100    |
| n-Hexane                  | U         |              | 0.0424 | 0.200    |
| Methyl tert-butyl ether   | U         |              | 0.0118 | 0.0400   |
| Naphthalene               | U         |              | 0.124  | 0.500    |
| Toluene                   | U         |              | 0.0500 | 0.200    |
| o-Xylene                  | U         |              | 0.0400 | 0.100    |
| m&p-Xylenes               | U         |              | 0.0600 | 0.160    |
| Xylenes, Total            | U         |              | 0.191  | 0.260    |
| (S) Toluene-d8            | 106       |              |        | 75.0-131 |
| (S) 4-Bromofluorobenzene  | 101       |              |        | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 96.8      |              |        | 70.0-130 |

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

(LCS) R3961309-1 08/15/23 18:01 • (LCSD) R3961309-2 08/15/23 18:20

| Analyte                   | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                           | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %     | %          |
| Benzene                   | 5.00         | 5.63       | 5.59        | 113      | 112       | 70.0-123    |               |                | 0.713 | 20         |
| 1,2-Dichloroethane        | 5.00         | 4.66       | 4.74        | 93.2     | 94.8      | 65.0-131    |               |                | 1.70  | 20         |
| Ethylbenzene              | 5.00         | 5.52       | 5.64        | 110      | 113       | 74.0-126    |               |                | 2.15  | 20         |
| n-Hexane                  | 5.00         | 5.89       | 6.00        | 118      | 120       | 55.0-137    |               |                | 1.85  | 20         |
| Methyl tert-butyl ether   | 5.00         | 5.38       | 5.11        | 108      | 102       | 66.0-132    |               |                | 5.15  | 20         |
| Naphthalene               | 5.00         | 4.95       | 4.70        | 99.0     | 94.0      | 59.0-130    |               |                | 5.18  | 20         |
| Toluene                   | 5.00         | 5.68       | 5.81        | 114      | 116       | 75.0-121    |               |                | 2.26  | 20         |
| o-Xylene                  | 5.00         | 5.52       | 5.52        | 110      | 110       | 79.0-124    |               |                | 0.000 | 20         |
| m&p-Xylenes               | 10.0         | 11.2       | 11.2        | 112      | 112       | 76.0-126    |               |                | 0.000 | 20         |
| Xylenes, Total            | 15.0         | 16.7       | 16.7        | 111      | 111       | 72.0-127    |               |                | 0.000 | 20         |
| (S) Toluene-d8            |              |            |             | 106      | 107       | 75.0-131    |               |                |       |            |
| (S) 4-Bromofluorobenzene  |              |            |             | 105      | 107       | 67.0-138    |               |                |       |            |
| (S) 1,2-Dichloroethane-d4 |              |            |             | 99.0     | 97.8      | 70.0-130    |               |                |       |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3961706-3 08/16/23 12:57

| Analyte                       | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-------------------------------|-------------------|--------------|----------------|----------------|
| Diesel Range Organics (DRO)   | U                 |              | 66.7           | 200            |
| Residual Range Organics (RRO) | U                 |              | 83.3           | 250            |
| <i>(S) o-Terphenyl</i>        | 83.5              |              |                | 52.0-156       |

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

(LCS) R3961706-1 08/16/23 12:17 • (LCSD) R3961706-2 08/16/23 12:37

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Diesel Range Organics (DRO) | 1500                 | 1080               | 1160                | 72.0          | 77.3           | 50.0-150         |               |                | 7.14     | 20              |
| <i>(S) o-Terphenyl</i>      |                      |                    |                     | 69.5          | 76.0           | 52.0-156         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3962490-1 08/18/23 10:14

| Analyte                        | MB Result | MB Qualifier | MB MDL | MB RDL   |
|--------------------------------|-----------|--------------|--------|----------|
|                                | ug/l      |              | ug/l   | ug/l     |
| C10-C12 Aliphatics             | U         |              | 16.7   | 50.0     |
| C12-C16 Aliphatics             | U         |              | 16.7   | 50.0     |
| C16-C21 ALIPHATICS             | U         |              | 16.7   | 50.0     |
| C21-C34 ALIPHATICS             | 38.0      | <u>J</u>     | 16.7   | 50.0     |
| <i>(S) 1-Chloro-octadecane</i> | 70.5      |              |        | 70.0-130 |

Method Blank (MB)

(MB) R3962490-4 08/18/23 11:20

| Analyte                       | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-------------------------------|-----------|--------------|--------|----------|
|                               | ug/l      |              | ug/l   | ug/l     |
| C10-C12 Aromatics             | U         |              | 16.7   | 50.0     |
| C12-C16 Aromatics             | U         |              | 16.7   | 50.0     |
| C16-C21 Aromatics             | U         |              | 16.7   | 50.0     |
| C21-C34 Aromatics             | 18.0      | <u>J</u>     | 16.7   | 50.0     |
| <i>(S) o-Terphenyl</i>        | 82.7      |              |        | 70.0-130 |
| <i>(S) 2-Fluorobiphenyl</i>   | 90.0      |              |        | 70.0-130 |
| <i>(S) 2-Bromonaphthalene</i> | 90.9      |              |        | 70.0-130 |

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

(LCS) R3962490-2 08/18/23 10:36 • (LCSD) R3962490-3 08/18/23 10:58

| Analyte                        | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|--------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-----|------------|
|                                | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %   | %          |
| C10-C12 Aliphatics             | 100          | 50.0       | 43.0        | 50       | 43        | 70-130      | <u>J4</u>     | <u>J4</u>      | 15  | 20         |
| C12-C16 Aliphatics             | 200          | 160        | 150         | 80       | 75        | 70-130      |               |                | 6.5 | 20         |
| C16-C21 ALIPHATICS             | 300          | 270        | 250         | 90       | 83        | 70-130      |               |                | 7.7 | 20         |
| C21-C34 ALIPHATICS             | 500          | 460        | 430         | 92       | 86        | 70-130      |               |                | 6.7 | 20         |
| <i>(S) 1-Chloro-octadecane</i> |              |            |             | 73.9     | 69.1      | 70.0-130    |               | <u>J2</u>      |     |            |

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

(LCS) R3962490-5 08/18/23 11:43 • (LCSD) R3962490-6 08/18/23 12:05

| Analyte           | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|-------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-----|------------|
|                   | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %   | %          |
| C10-C12 Aromatics | 100          | 71.0       | 64.0        | 71       | 64        | 70-130      |               | <u>J4</u>      | 10  | 20         |
| C12-C16 Aromatics | 300          | 250        | 230         | 83       | 77        | 70-130      |               |                | 8.3 | 20         |
| C16-C21 Aromatics | 500          | 490        | 460         | 98       | 92        | 70-130      |               |                | 6.3 | 20         |
| C21-C34 Aromatics | 800          | 780        | 760         | 98       | 95        | 70-130      |               |                | 2.6 | 20         |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

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

(LCS) R3962490-5 08/18/23 11:43 • (LCSD) R3962490-6 08/18/23 12:05

| Analyte                | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| (S) o-Terphenyl        |                      |                    |                     | 89.5          | 84.4           | 70.0-130         |                      |                       |          |                 |
| (S) 2-Fluorobiphenyl   |                      |                    |                     | 99.8          | 105            | 70.0-130         |                      |                       |          |                 |
| (S) 2-Bromonaphthalene |                      |                    |                     | 92.8          | 97.9           | 70.0-130         |                      |                       |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Method Blank (MB)

(MB) R3961294-2 08/16/23 03:08

| Analyte              | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|----------------------|-------------------|--------------|----------------|----------------|
| Naphthalene          | U                 |              | 0.0917         | 0.250          |
| (S) Nitrobenzene-d5  | 109               |              |                | 31.0-160       |
| (S) 2-Fluorobiphenyl | 98.0              |              |                | 48.0-148       |
| (S) p-Terphenyl-d14  | 92.5              |              |                | 37.0-146       |

Laboratory Control Sample (LCS)

(LCS) R3961294-1 08/16/23 02:51

| Analyte              | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|----------------------|--------------------|---------------|------------------|---------------|
| Naphthalene          | 2.00                 | 2.12               | 106           | 61.0-137         |               |
| (S) Nitrobenzene-d5  |                      |                    | 111           | 31.0-160         |               |
| (S) 2-Fluorobiphenyl |                      |                    | 99.0          | 48.0-148         |               |
| (S) p-Terphenyl-d14  |                      |                    | 77.5          | 37.0-146         |               |

L1646074-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1646074-01 08/16/23 10:20 • (MS) R3961294-3 08/16/23 10:37 • (MSD) R3961294-4 08/16/23 10:55

| Analyte              | Spike Amount<br>ug/l | Original Result<br>ug/l | MS Result<br>ug/l | MSD Result<br>ug/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|----------------------|-------------------------|-------------------|--------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Naphthalene          | 2.00                 | U                       | 2.15              | 2.21               | 107          | 111           | 1        | 10.0-160         |              |               | 2.75     | 20              |
| (S) Nitrobenzene-d5  |                      |                         |                   |                    | 116          | 123           |          | 31.0-160         |              |               |          |                 |
| (S) 2-Fluorobiphenyl |                      |                         |                   |                    | 102          | 106           |          | 48.0-148         |              |               |          |                 |
| (S) p-Terphenyl-d14  |                      |                         |                   |                    | 98.5         | 105           |          | 37.0-146         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# INTERNAL STANDARD SUMMARY

Instrument: VO CGC12 • File ID: 0815\_30

08/16/23 00:21

| Sample ID                     | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|----------|---------------------------------|---------------------------------|
| Standard                      | 0815_30  | 976473200                       | 969216200                       |
| Upper Limit                   |          | 1952946000                      | 1938432000                      |
| Lower Limit                   |          | 488236600                       | 484608100                       |
| LCS R3961201-1 WG2114809 1x   | 0815_30u | 976473200                       | 969216200                       |
| BLANK R3961201-2 WG2114809 1x | 0815_32  | 878353200                       | 870472400                       |
| L1645973-02 WG2114809 1x      | 0815_33  | 888133600                       | 878801900                       |
| L1645973-01 WG2114809 1x      | 0815_34  | 863062300                       | 860900500                       |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS42 • File ID: 0815\_26-3

08/15/23 18:01

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0815_26-3   | 629134                         | 285968.70                         | 264017                                  |
| Upper Limit                   |             | 1258268                        | 571937                            | 528034                                  |
| Lower Limit                   |             | 314567                         | 142984                            | 132009                                  |
| LCS R3961309-1 WG2114724 1x   | 0815_26LCSA | 629134                         | 285968.70                         | 264017                                  |
| LCSD R3961309-2 WG2114724 1x  | 0815_27A    | 662602.30                      | 306197.70                         | 283680.10                               |
| BLANK R3961309-3 WG2114724 1x | 0815_30     | 621043                         | 284147.10                         | 243136.80                               |
| L1645973-02 WG2114724 1x      | 0815_32     | 736771.20                      | 330218.20                         | 307928.90                               |
| L1645973-01 WG2114724 1x      | 0815_33     | 638194.80                      | 296019.50                         | 281833.80                               |

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

# INTERNAL STANDARD SUMMARY

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

Instrument: BNAMS31 • File ID: 0816\_03

08/16/23 01:59

| Sample ID                     | File ID | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|---------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0816_03 | 32591                      | 17774                        | 32590                        | 26023                    | 21078                    |
| Upper Limit                   |         | 65182                      | 35548                        | 65180                        | 52046                    | 42156                    |
| Lower Limit                   |         | 16296                      | 8887                         | 16295                        | 13012                    | 10539                    |
| LCS R3961294-1 WG2114486 1x   | 0816_06 | 30300                      | 16005                        | 29862                        | 23266                    | 18728                    |
| BLANK R3961294-2 WG2114486 1x | 0816_07 | 32594                      | 17481                        | 32372                        | 24953                    | 19987                    |
| L1645973-01 WG2114486 1x      | 0816_08 | 32324                      | 17233                        | 32204                        | 24765                    | 19743                    |
| MS R3961294-3 WG2114486 1x    | 0816_33 | 33097                      | 17882                        | 33359                        | 27485                    | 23566                    |
| MSD R3961294-4 WG2114486 1x   | 0816_34 | 32099                      | 17506                        | 32308                        | 26299                    | 22588                    |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| 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   |
|-----------|---|
| B         | The same analyte is found in the associated blank.                                      |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.     |
| J2        | Surrogate recovery limits have been exceeded; values are outside lower control limits.  |
| J4        | The associated batch QC was outside the established quality control range for accuracy. |



# 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
 Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**185751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Sarnay**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Sarnay*

**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  
**ASAP**

No. of Cntrs

Immediately Packed on Ice N  Y

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



**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 # **11645973**  
**B028**

Acctnum: **STANTECBWA**

Template: **T234674**

Prelogin: **P1013678**

PM: **546 - Jared Starkey**

PB: **7/26/23**  
 Shipped Via: **FedEx Standard**

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | NWTPHDXLVINOSGT 40mlAmb-HCl-BT | NWTPHGX 40mlAmb HCl | PAHSIMLVI 40mlAmb-NoPres-WT | PBICP 250mlHDPE-HNO3 | SVEPHWA 1L-Amb-Add HCl | V8260BTEX 40mlAmb-HCl | VPHWA 40mlAmb HCl | Remarks | Sample # (lab only) |
|-----------|-----------|----------|-------|---------|------|--------------|--------------------------------|---------------------|-----------------------------|----------------------|------------------------|-----------------------|-------------------|---------|---------------------|
| DC-1      | G         | GW       | -     | 8/14/23 | 1300 | 16           | X                              | X                   | X                           | X                    | X                      | X                     | X                 |         | -01                 |
| TB-01     | G         | GW       | -     | 8/14/23 | -    | 2            |                                | X                   |                             |                      |                        | X                     |                   |         | -02                 |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |
|           |           | GW       |       |         |      |              |                                |                     |                             |                      |                        |                       |                   |         |                     |

\* 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 # **9165 0224 4572**

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | <input checked="" type="checkbox"/> NP <input type="checkbox"/> N |
| COC Signed/Accurate:          | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| Bottles arrive intact:        | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| Correct bottles used:         | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| Sufficient volume sent:       | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| If Applicable                 |   |
| VOA Zero Headspace:           | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| Preservation Correct/Checked: | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |
| RAD Screen <0.5 mR/hr:        | <input checked="" type="checkbox"/> N <input type="checkbox"/> N  |

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HCl/MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp **6.24°C** Bottles Received: **16**  
**4.70 = 4.1**

If preservation required, hold at \_\_\_\_\_ °C/Time  
**PH-10BDH4321 TRC-2144141**  
**CR6-20221V**

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **8.15.23** Time: **9:00**

Hold at \_\_\_\_\_ °C/Time  
 Condition: **NCF / OK**

**Stantec- Bellevue, WA**

Sample Delivery Group: L1647487  
Samples Received: 08/18/2023  
Project Number: 185751446  
Description: Hungry Whale Test Pitting

Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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# SAMPLE SUMMARY

## DC-2 L1647487-01 GW

Collected by: Paul Janney  
 Collected date/time: 08/17/23 13:30  
 Received date/time: 08/18/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116725 | 1        | 08/18/23 16:17        | 08/18/23 16:17     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116695 | 1        | 08/18/23 13:40        | 08/18/23 13:40     | ACG     | Mt. Juliet, TN |

## TB-01 L1647487-02 GW

Collected by: Paul Janney  
 Collected date/time: 08/15/23 00:00  
 Received date/time: 08/18/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2116725 | 1        | 08/18/23 15:55        | 08/18/23 15:55     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2116695 | 1        | 08/18/23 13:17        | 08/18/23 13:17     | ACG     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

## Volatile Organic Compounds (GC) by Method NWTPHGX

---

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID   |
|-----------|-------------------------------|-----------------|
| WG2116725 | Gasoline Range Organics-NWTPH | L1647487-01, 02 |



## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                                  | Result<br>ug/l | Qualifier         | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|--|----------------|-------------------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range<br>Organics-NWTPH         | 42.9           | <u>B</u> <u>J</u> | 31.6        | 100         | 1        | 08/18/2023 16:17        | <a href="#">WG2116725</a> |
| (S)<br><i>a,a</i> -Trifluorotoluene(FID) | 105            |                   |             | 78.0-120    |          | 08/18/2023 16:17        | <a href="#">WG2116725</a> |

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0941      | 1.00        | 1        | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| Toluene                   | U              |           | 0.278       | 1.00        | 1        | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| Ethylbenzene              | U              |           | 0.137       | 1.00        | 1        | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| Total Xylenes             | U              |           | 0.174       | 3.00        | 1        | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| (S) Toluene-d8            | 106            |           |             | 80.0-120    |          | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| (S) 4-Bromofluorobenzene  | 112            |           |             | 77.0-126    |          | 08/18/2023 13:40        | <a href="#">WG2116695</a> |
| (S) 1,2-Dichloroethane-d4 | 108            |           |             | 70.0-130    |          | 08/18/2023 13:40        | <a href="#">WG2116695</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 66.7           | <u>B</u>  | 31.6        | 100         | 1        | 08/18/2023 15:55        | <a href="#">WG2116725</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104            |           |             | 78.0-120    |          | 08/18/2023 15:55        | <a href="#">WG2116725</a> |

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

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0941      | 1.00        | 1        | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| Toluene                   | U              |           | 0.278       | 1.00        | 1        | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| Ethylbenzene              | U              |           | 0.137       | 1.00        | 1        | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| Total Xylenes             | U              |           | 0.174       | 3.00        | 1        | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| (S) Toluene-d8            | 108            |           |             | 80.0-120    |          | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| (S) 4-Bromofluorobenzene  | 108            |           |             | 77.0-126    |          | 08/18/2023 13:17        | <a href="#">WG2116695</a> |
| (S) 1,2-Dichloroethane-d4 | 106            |           |             | 70.0-130    |          | 08/18/2023 13:17        | <a href="#">WG2116695</a> |

Method Blank (MB)

(MB) R3962717-3 08/18/23 14:22

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | 65.7              | J            | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 105               |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3962717-2 08/18/23 13:19

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5510               | 100           | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 111           | 78.0-120         |               |

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

Method Blank (MB)

(MB) R3962563-4 08/18/23 10:50

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 108       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 110       |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 105       |              |        | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3962563-1 08/18/23 09:22

| Analyte                          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------------|--------------|------------|----------|-------------|---------------|
|                                  | ug/l         | ug/l       | %        | %           |               |
| Benzene                          | 5.00         | 5.52       | 110      | 70.0-123    |               |
| Toluene                          | 5.00         | 5.04       | 101      | 79.0-120    |               |
| Ethylbenzene                     | 5.00         | 4.81       | 96.2     | 79.0-123    |               |
| Total Xylenes                    | 15.0         | 14.7       | 98.0     | 79.0-123    |               |
| <i>(S) Toluene-d8</i>            |              |            | 105      | 80.0-120    |               |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            | 108      | 77.0-126    |               |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            | 103      | 70.0-130    |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCGC10 • File ID: 0818\_03

08/18/23 13:19

| Sample ID                     | File ID  | FLUOROBENZENE (FID) | FLUOROBENZENE (PID) |
|-------------------------------|----------|---------------------|---------------------|
|                               |          | Response            | Response            |
| Standard                      | 0818_03  | 173861300           | 339921300           |
| Upper Limit                   |          | 347722600           | 679842600           |
| Lower Limit                   |          | 86930650            | 169960700           |
| LCS R3962717-2 WG2116725 1x   | 0818_03U | 173861300           | 339921300           |
| BLANK R3962717-3 WG2116725 1x | 0818_05  | 173928000           | 332121000           |
| L1647487-02 WG2116725 1x      | 0818_10  | 170754300           | 327334400           |
| L1647487-01 WG2116725 1x      | 0818_11  | 181729700           | 350291100           |

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

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS21 • File ID: 0818\_03-1

08/18/23 09:22

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0818_03-1  | 207897                         | 106854                            | 99897                                   |
| Upper Limit                   |            | 415794                         | 213708                            | 199794                                  |
| Lower Limit                   |            | 103949                         | 53427                             | 49949                                   |
| LCS R3962563-1 WG2116695 1x   | 0818_03LCS | 207897                         | 106854                            | 99897                                   |
| BLANK R3962563-4 WG2116695 1x | 0818_07    | 200984                         | 101342                            | 97618                                   |
| L1647487-02 WG2116695 1x      | 0818_09    | 196193                         | 98779                             | 93564                                   |
| L1647487-01 WG2116695 1x      | 0818_10    | 197962                         | 98156                             | 92653                                   |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# GLOSSARY OF TERMS

## 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.  |
|------------------------------|--|
| 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.  |
| 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  |
| B                            | The same analyte is found in the associated blank.   |
| 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State Collected: **Westport WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**146751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Jarney**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul Jarney*

**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

No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| DL-2      | G         | GW       | -     | 8/17/23 | 1330 | 6            |
| TB-01     | G         | GW       | -     | 8/15/23 | -    | 2            |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |

| Pres Chk | Analysis / Container / Preservative |                     |                             |                      |                        |                       |                   |
|----------|-------------------------------------|---------------------|-----------------------------|----------------------|------------------------|-----------------------|-------------------|
|          | NWTPHDXLVINOSGT 40mlAmb-HCl-BT      | NWTPHGX 40mlAmb HCl | PAHSIMLVI 40mlAmb-NoPres-WT | PBICP 250mlHDPE-HNO3 | SVEPHWA 1L-Amb-Add HCl | V8260BTEX 40mlAmb-HCl | VPHWA 40mlAmb HCl |
|          |                                     | X                   |                             |                      |                        | X                     |                   |
|          |                                     | X                   |                             |                      |                        | X                     |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |
|          |                                     |                     |                             |                      |                        |                       |                   |

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/hubs/pas-standard-terms.pdf>

SDG # **11047487**

**B140**

Table

Acctnum: **STANTECBWA**

Template: **T234674**

Prelogin: **P1013678**

PM: **546 - Jared Starkey**

PB: **7/26/23 JB**

Shipped Via: **FedEX Standard**

Remarks | Sample # (lab only)

-01  
-02

\* 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 # **6841 8344 8770**

**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)<br><i>Paul Jarney</i> | Date:<br><b>8/17/23</b> | Time:<br><b>1530</b> | Received by: (Signature)<br><b>FedEx</b>        | Trip Blank Received: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No<br><b>2</b> | HCl/ MeOH<br>TBR           |
| Relinquished by: (Signature)                       | Date:                   | Time:                | Received by: (Signature)                        | Temp: <b>6.44°C</b>  | Bottles Received: <b>6</b> |
| Relinquished by: (Signature)                       | Date:                   | Time:                | Received for lab by: (Signature)<br><b>g 10</b> | Date:<br><b>8.18.23</b>  | Time:<br><b>9:00</b>       |

If preservation required by Login: Date/Time

Hold:

Condition:  NCF /  OK

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

## Stantec- Bellevue, WA

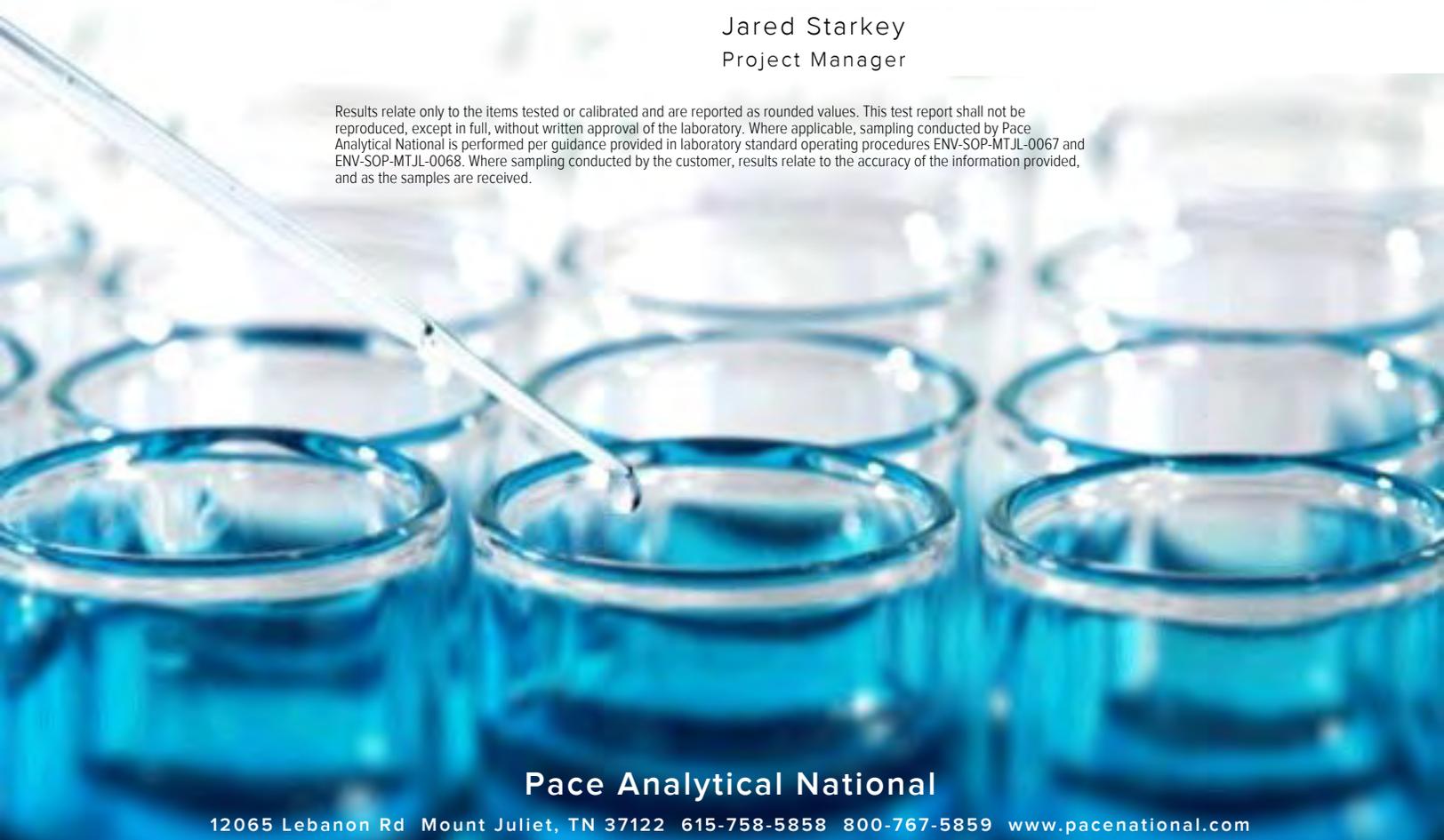
Sample Delivery Group: L1647951  
Samples Received: 08/19/2023  
Project Number:  
Description: Hungry Whale Test Pitting  
  
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## DC-3 L1647951-01 GW

Collected by: Paul Sanney  
 Collected date/time: 08/18/23 11:50  
 Received date/time: 08/19/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117260 | 1        | 08/19/23 15:50        | 08/19/23 15:50     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117255 | 1        | 08/19/23 13:56        | 08/19/23 13:56     | JAH     | Mt. Juliet, TN |

## TB-01 L1647951-02 GW

Collected by: Paul Sanney  
 Collected date/time: 08/18/23 00:00  
 Received date/time: 08/19/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2117260 | 1        | 08/19/23 15:06        | 08/19/23 15:06     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2117255 | 1        | 08/19/23 13:35        | 08/19/23 13:35     | JAH     | Mt. Juliet, TN |

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

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                               | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH         | U      |           | 31.6 | 100      | 1        | 08/19/2023 15:50     | <a href="#">WG2117260</a> |
| (S) <i>a,a</i> -Trifluorotoluene(FID) | 104    |           |      | 78.0-120 |          | 08/19/2023 15:50     | <a href="#">WG2117260</a> |

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

| Analyte                            | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|------------------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                            | U      |           | 0.0941 | 1.00     | 1        | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| Toluene                            | U      |           | 0.278  | 1.00     | 1        | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| Ethylbenzene                       | U      |           | 0.137  | 1.00     | 1        | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| Total Xylenes                      | U      |           | 0.174  | 3.00     | 1        | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| (S) Toluene- <i>d</i> 8            | 90.8   |           |        | 80.0-120 |          | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| (S) 4-Bromofluorobenzene           | 109    |           |        | 77.0-126 |          | 08/19/2023 13:56     | <a href="#">WG2117255</a> |
| (S) 1,2-Dichloroethane- <i>d</i> 4 | 109    |           |        | 70.0-130 |          | 08/19/2023 13:56     | <a href="#">WG2117255</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/19/2023 15:06     | <a href="#">WG2117260</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104    |           |      | 78.0-120 |          | 08/19/2023 15:06     | <a href="#">WG2117260</a> |

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

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| (S) Toluene-d8            | 90.4   |           |        | 80.0-120 |          | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| (S) 4-Bromofluorobenzene  | 105    |           |        | 77.0-126 |          | 08/19/2023 13:35     | <a href="#">WG2117255</a> |
| (S) 1,2-Dichloroethane-d4 | 110    |           |        | 70.0-130 |          | 08/19/2023 13:35     | <a href="#">WG2117255</a> |

Method Blank (MB)

(MB) R3962949-2 08/19/23 13:57

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 103               |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3962949-1 08/19/23 13:00

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5430               | 98.7          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 102           | 78.0-120         |               |

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

Method Blank (MB)

(MB) R3962950-2 08/19/23 11:34

| Analyte                   | MB Result | MB Qualifier | MB MDL | MB RDL   |
|---------------------------|-----------|--------------|--------|----------|
|                           | ug/l      |              | ug/l   | ug/l     |
| Benzene                   | U         |              | 0.0941 | 1.00     |
| Toluene                   | U         |              | 0.278  | 1.00     |
| Ethylbenzene              | U         |              | 0.137  | 1.00     |
| Total Xylenes             | U         |              | 0.174  | 3.00     |
| (S) Toluene-d8            | 94.7      |              |        | 80.0-120 |
| (S) 4-Bromofluorobenzene  | 110       |              |        | 77.0-126 |
| (S) 1,2-Dichloroethane-d4 | 109       |              |        | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3962950-1 08/19/23 10:30

| Analyte                   | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---------------------------|--------------|------------|----------|-------------|---------------|
|                           | ug/l         | ug/l       | %        | %           |               |
| Benzene                   | 5.00         | 4.85       | 97.0     | 70.0-123    |               |
| Toluene                   | 5.00         | 4.13       | 82.6     | 79.0-120    |               |
| Ethylbenzene              | 5.00         | 4.27       | 85.4     | 79.0-123    |               |
| Total Xylenes             | 15.0         | 13.0       | 86.7     | 79.0-123    |               |
| (S) Toluene-d8            |              |            | 93.7     | 80.0-120    |               |
| (S) 4-Bromofluorobenzene  |              |            | 110      | 77.0-126    |               |
| (S) 1,2-Dichloroethane-d4 |              |            | 105      | 70.0-130    |               |



# INTERNAL STANDARD SUMMARY

Instrument: VO CGC12 • File ID: 0819\_28

08/19/23 13:00

| Sample ID                     | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|----------|---------------------------------|---------------------------------|
| Standard                      | 0819_28  | 1048284000                      | 991742800                       |
| Upper Limit                   |          | 2096568000                      | 1983486000                      |
| Lower Limit                   |          | 524142000                       | 495871400                       |
| LCS R3962949-1 WG2117260 1x   | 0819_28U | 1048284000                      | 991742800                       |
| BLANK R3962949-2 WG2117260 1x | 0819_30  | 824244400                       | 823207000                       |
| L1647951-02 WG2117260 1x      | 0819_31  | 824316900                       | 816893700                       |
| L1647951-01 WG2117260 1x      | 0819_33  | 884885100                       | 884460500                       |

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Is
- <sup>8</sup>Gl
- <sup>9</sup>Al
- <sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS39 • File ID: 0819\_03-2

08/19/23 10:30

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0819_03-2  | 375438.90                      | 109221.90                         | 127735.40                               |
| Upper Limit                   |            | 750878                         | 218444                            | 255471                                  |
| Lower Limit                   |            | 187719                         | 54611                             | 63868                                   |
| LCS R3962950-1 WG2117255 1x   | 0819_03LCS | 375438.90                      | 109221.90                         | 127735.40                               |
| BLANK R3962950-2 WG2117255 1x | 0819_06    | 351674.30                      | 100348                            | 123185.70                               |
| L1647951-02 WG2117255 1x      | 0819_08    | 373660.50                      | 116685.80                         | 129705.90                               |
| L1647951-01 WG2117255 1x      | 0819_09    | 335479.40                      | 95408.60                          | 112783.30                               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# GLOSSARY OF TERMS

## 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.  |
| 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.  |
| 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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



# 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
 11130 NE 33rd Pl, Ste 200  
 Bellevue, WA 98004

Report to:  
**Stantec**

Email To:  
 zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State:  
 Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**135751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Senney**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Senney*

**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

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

No. of Cntrs

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| DL-3      | G         | GW       | -     | 8/14/23 | 1150 | 6            |
| TB-01     | -         | GW       | -     | 8/14/23 | -    | 2            |
|           |           | GW       |       |         |      |              |
|           |           | GW       |       |         |      |              |

| Pres Chk | Analysis / Container / Preservative |                                |                     |                            |                      |                        |                       |
|----------|-------------------------------------|--------------------------------|---------------------|----------------------------|----------------------|------------------------|-----------------------|
|          |                                     | NWTPHDXLVINOSGT 40mlAmb-HCl-BT | NWTPHGX 40mlAmb HCl | PAHSIMLV 40mlAmb-NoPres-WT | PBICP 250mlHDPE-HNO3 | SVEPHWA 1L-Amb-Add HCl | V8260BTEX 40mlAmb-HCl |

Chain of Custody Page 1 of 1



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 # **L1647951**

**C154**

Acctnum: **STANTECBWA**

Template: **T234674**

Prelogin: **P1013678**

PM: **546 Jared Starkey**

PB: **7/26/23**

Shipped Via: **FedEx Standard**

Remarks | Sample # (lab only)

-01

-02

\* 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 # **6841 8344 9905**

**Sample Receipt Checklist**

|                               |    |                                       |                            |
|-------------------------------|----|---------------------------------------|----------------------------|
| COC Seal Present/Intact:      | NP | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| COC Signed/Accurate:          |    | <input type="checkbox"/> Y            | <input type="checkbox"/> N |
| Bottles arrive intact:        |    | <input type="checkbox"/> Y            | <input type="checkbox"/> N |
| Correct bottles used:         |    | <input type="checkbox"/> Y            | <input type="checkbox"/> N |
| Sufficient volume sent:       |    | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| <i>If Applicable</i>          |    |                                       |                            |
| VOA Zero Headspace:           |    | <input type="checkbox"/> Y            | <input type="checkbox"/> N |
| Preservation Correct/Checked: |    | <input type="checkbox"/> Y            | <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr:        |    | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |

|   |                  |               |   |   |
|---|------------------|---------------|---|---|
| Relinquished by: (Signature)<br><i>Paul M. Senney</i> | Date:<br>8/14/23 | Time:<br>1500 | Received by: (Signature)<br>FedEx                       | Trip Blank Received: Yes/No<br>2 <input checked="" type="checkbox"/> HCL <input type="checkbox"/> MeOH <input type="checkbox"/> TBR |
| Relinquished by: (Signature)                          | Date:            | Time:         | Received by: (Signature)                                | Temp: <b>6.98</b> °C Bottles Received: <b>6</b>   |
| Relinquished by: (Signature)                          | Date:            | Time:         | Received for lab by: (Signature)<br><i>GRACE BARRON</i> | Date: <b>08.19.23</b> Time: <b>0900</b>   |

Condition:  
 NCF /  OK

**Stantec- Bellevue, WA**

Sample Delivery Group: L1648719  
Samples Received: 08/23/2023  
Project Number: 185751446  
Description: Hungry Whale

Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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# SAMPLE SUMMARY

## DC-4 L1648719-01 GW

Collected by: Paul Janney  
 Collected date/time: 08/22/23 09:00  
 Received date/time: 08/23/23 08:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2120303 | 1        | 08/24/23 17:31        | 08/24/23 17:31     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2119441 | 1        | 08/23/23 12:49        | 08/23/23 12:49     | KSD     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2119755 | 1        | 08/23/23 22:23        | 08/24/23 10:08     | DMG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2119763 | 1        | 08/23/23 18:51        | 08/23/23 23:11     | AGW     | Mt. Juliet, TN |

## DC-5 L1648719-02 GW

Collected by: Paul Janney  
 Collected date/time: 08/22/23 09:30  
 Received date/time: 08/23/23 08:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2120303 | 1        | 08/24/23 17:53        | 08/24/23 17:53     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2119441 | 1        | 08/23/23 13:10        | 08/23/23 13:10     | KSD     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2119755 | 1        | 08/23/23 22:23        | 08/24/23 10:28     | DMG     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2119763 | 1        | 08/23/23 18:51        | 08/23/23 23:30     | AGW     | Mt. Juliet, TN |

## TB-01 L1648719-03 GW

Collected by: Paul Janney  
 Collected date/time: 08/22/23 00:00  
 Received date/time: 08/23/23 08:30

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2120303 | 1        | 08/24/23 16:48        | 08/24/23 16:48     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2119188 | 1        | 08/24/23 00:05        | 08/24/23 00:05     | JHH     | Mt. Juliet, TN |



# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Is
- <sup>8</sup> Gl
- <sup>9</sup> Al
- <sup>10</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/24/2023 17:31     | <a href="#">WG2120303</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 102    |           |      | 78.0-120 |          | 08/24/2023 17:31     | <a href="#">WG2120303</a> |

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| (S) Toluene-d8            | 108    |           |        | 80.0-120 |          | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| (S) 4-Bromofluorobenzene  | 109    |           |        | 77.0-126 |          | 08/23/2023 12:49     | <a href="#">WG2119441</a> |
| (S) 1,2-Dichloroethane-d4 | 115    |           |        | 70.0-130 |          | 08/23/2023 12:49     | <a href="#">WG2119441</a> |

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

| Analyte                       | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|-------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Diesel Range Organics (DRO)   | 70.2   | J         | 66.7 | 200      | 1        | 08/24/2023 10:08     | <a href="#">WG2119755</a> |
| Residual Range Organics (RRO) | U      |           | 83.3 | 250      | 1        | 08/24/2023 10:08     | <a href="#">WG2119755</a> |
| (S) o-Terphenyl               | 137    |           |      | 52.0-156 |          | 08/24/2023 10:08     | <a href="#">WG2119755</a> |

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

| Analyte              | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|----------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Naphthalene          | U      |           | 0.0917 | 0.250    | 1        | 08/23/2023 23:11     | <a href="#">WG2119763</a> |
| (S) Nitrobenzene-d5  | 92.6   |           |        | 31.0-160 |          | 08/23/2023 23:11     | <a href="#">WG2119763</a> |
| (S) 2-Fluorobiphenyl | 88.4   |           |        | 48.0-148 |          | 08/23/2023 23:11     | <a href="#">WG2119763</a> |
| (S) p-Terphenyl-d14  | 93.2   |           |        | 37.0-146 |          | 08/23/2023 23:11     | <a href="#">WG2119763</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                                 | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH           | U      |           | 31.6 | 100      | 1        | 08/24/2023 17:53     | <a href="#">WG2120303</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 104    |           |      | 78.0-120 |          | 08/24/2023 17:53     | <a href="#">WG2120303</a> |

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

| Analyte                          | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|----------------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                          | U      |           | 0.0941 | 1.00     | 1        | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| Toluene                          | U      |           | 0.278  | 1.00     | 1        | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| Ethylbenzene                     | U      |           | 0.137  | 1.00     | 1        | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| Total Xylenes                    | U      |           | 0.174  | 3.00     | 1        | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| (S) <i>Toluene-d8</i>            | 111    |           |        | 80.0-120 |          | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 110    |           |        | 77.0-126 |          | 08/23/2023 13:10     | <a href="#">WG2119441</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 110    |           |        | 70.0-130 |          | 08/23/2023 13:10     | <a href="#">WG2119441</a> |

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

| Analyte                       | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|-------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Diesel Range Organics (DRO)   | 76.8   | J         | 66.7 | 200      | 1        | 08/24/2023 10:28     | <a href="#">WG2119755</a> |
| Residual Range Organics (RRO) | U      |           | 83.3 | 250      | 1        | 08/24/2023 10:28     | <a href="#">WG2119755</a> |
| (S) <i>o</i> -Terphenyl       | 134    |           |      | 52.0-156 |          | 08/24/2023 10:28     | <a href="#">WG2119755</a> |

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

| Analyte                     | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|-----------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Naphthalene                 | U      |           | 0.0917 | 0.250    | 1        | 08/23/2023 23:30     | <a href="#">WG2119763</a> |
| (S) <i>Nitrobenzene-d5</i>  | 75.3   |           |        | 31.0-160 |          | 08/23/2023 23:30     | <a href="#">WG2119763</a> |
| (S) <i>2-Fluorobiphenyl</i> | 72.6   |           |        | 48.0-148 |          | 08/23/2023 23:30     | <a href="#">WG2119763</a> |
| (S) <i>p</i> -Terphenyl-d14 | 73.7   |           |        | 37.0-146 |          | 08/23/2023 23:30     | <a href="#">WG2119763</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|----------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/24/2023 16:48     | <a href="#">WG2120303</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.9   |           |      | 78.0-120 |          | 08/24/2023 16:48     | <a href="#">WG2120303</a> |

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

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|----------------------|---------------------------|
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| (S) Toluene-d8            | 112    |           |        | 80.0-120 |          | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| (S) 4-Bromofluorobenzene  | 106    |           |        | 77.0-126 |          | 08/24/2023 00:05     | <a href="#">WG2119188</a> |
| (S) 1,2-Dichloroethane-d4 | 114    |           |        | 70.0-130 |          | 08/24/2023 00:05     | <a href="#">WG2119188</a> |

Method Blank (MB)

(MB) R3965204-2 08/24/23 11:18

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | U                 |              | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 106               |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3965204-1 08/24/23 09:03

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5180               | 94.2          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 99.3          | 78.0-120         |               |

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

Method Blank (MB)

(MB) R3964817-3 08/23/23 23:35

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 117       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 104       |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 118       |              |        | 70.0-130 |

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

(LCS) R3964817-1 08/23/23 22:09 • (LCSD) R3964817-2 08/23/23 22:31

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                                  | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %    | %          |
| Benzene                          | 5.00         | 4.84       | 4.70        | 96.8     | 94.0      | 70.0-123    |               |                | 2.94 | 20         |
| Toluene                          | 5.00         | 5.04       | 4.90        | 101      | 98.0      | 79.0-120    |               |                | 2.82 | 20         |
| Ethylbenzene                     | 5.00         | 4.86       | 4.80        | 97.2     | 96.0      | 79.0-123    |               |                | 1.24 | 20         |
| Total Xylenes                    | 15.0         | 14.7       | 13.8        | 98.0     | 92.0      | 79.0-123    |               |                | 6.32 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 110      | 108       | 80.0-120    |               |                |      |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 107      | 105       | 77.0-126    |               |                |      |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 117      | 96.9      | 70.0-130    |               |                |      |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3964532-2 08/23/23 10:29

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 107       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 101       |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 112       |              |        | 70.0-130 |

Laboratory Control Sample (LCS)

(LCS) R3964532-1 08/23/23 09:24

| Analyte                          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------------------|--------------|------------|----------|-------------|---------------|
|                                  | ug/l         | ug/l       | %        | %           |               |
| Benzene                          | 5.00         | 5.03       | 101      | 70.0-123    |               |
| Toluene                          | 5.00         | 4.63       | 92.6     | 79.0-120    |               |
| Ethylbenzene                     | 5.00         | 4.67       | 93.4     | 79.0-123    |               |
| Total Xylenes                    | 15.0         | 13.0       | 86.7     | 79.0-123    |               |
| <i>(S) Toluene-d8</i>            |              |            | 101      | 80.0-120    |               |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            | 106      | 77.0-126    |               |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            | 111      | 70.0-130    |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3964915-1 08/24/23 09:07

| Analyte                       | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-------------------------------|-----------|--------------|--------|----------|
|                               | ug/l      |              | ug/l   | ug/l     |
| Diesel Range Organics (DRO)   | U         |              | 66.7   | 200      |
| Residual Range Organics (RRO) | U         |              | 83.3   | 250      |
| <i>(S) o-Terphenyl</i>        | 132       |              |        | 52.0-156 |

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

(LCS) R3964915-2 08/24/23 09:28 • (LCSD) R3964915-3 08/24/23 09:48

| Analyte                     | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|-----------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                             | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %    | %          |
| Diesel Range Organics (DRO) | 1500         | 1780       | 1700        | 119      | 113       | 50.0-150    |               |                | 4.60 | 20         |
| <i>(S) o-Terphenyl</i>      |              |            |             | 140      | 135       | 52.0-156    |               |                |      |            |

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

Method Blank (MB)

(MB) R3964808-3 08/23/23 22:51

| Analyte              | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|----------------------|-------------------|--------------|----------------|----------------|
| Naphthalene          | U                 |              | 0.0917         | 0.250          |
| (S) Nitrobenzene-d5  | 119               |              |                | 31.0-160       |
| (S) 2-Fluorobiphenyl | 114               |              |                | 48.0-148       |
| (S) p-Terphenyl-d14  | 91.5              |              |                | 37.0-146       |

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

(LCS) R3964808-1 08/23/23 22:12 • (LCSD) R3964808-2 08/23/23 22:31

| Analyte              | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Naphthalene          | 2.00                 | 1.82               | 1.68                | 91.0          | 84.0           | 61.0-137         |               |                | 8.00     | 20              |
| (S) Nitrobenzene-d5  |                      |                    |                     | 101           | 94.5           | 31.0-160         |               |                |          |                 |
| (S) 2-Fluorobiphenyl |                      |                    |                     | 88.5          | 90.5           | 48.0-148         |               |                |          |                 |
| (S) p-Terphenyl-d14  |                      |                    |                     | 92.5          | 94.5           | 37.0-146         |               |                |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCGC12 • File ID: 0824\_03

08/24/23 09:03

| Sample ID                     | File ID  | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|----------|---------------------------------|---------------------------------|
| Standard                      | 0824_03  | 1042018000                      | 1019822000                      |
| Upper Limit                   |          | 2084036000                      | 2039644000                      |
| Lower Limit                   |          | 521009000                       | 509911000                       |
| LCS R3965204-1 WG2120303 1x   | 0824_03z | 1042018000                      | 1019822000                      |
| BLANK R3965204-2 WG2120303 1x | 0824_05  | 962593700                       | 961507600                       |
| L1648719-03 WG2120303 1x      | 0824_17  | 868531500                       | 860095600                       |
| L1648719-01 WG2120303 1x      | 0824_19  | 827776100                       | 827776100                       |
| L1648719-02 WG2120303 1x      | 0824_20  | 827421800                       | 826430100                       |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS21 • File ID: 0823A\_03-2

08/23/23 09:24

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0823A_03-2  | 130708                         | 70679                             | 65249                                   |
| Upper Limit                   |             | 261416                         | 141358                            | 130498                                  |
| Lower Limit                   |             | 65354                          | 35340                             | 32625                                   |
| LCS R3964532-1 WG2119441 1x   | 0823A_03LCS | 130708                         | 70679                             | 65249                                   |
| BLANK R3964532-2 WG2119441 1x | 0823A_06    | 127266                         | 65170                             | 62050                                   |
| L1648719-01 WG2119441 1x      | 0823A_11    | 123185                         | 60739                             | 57129                                   |
| L1648719-02 WG2119441 1x      | 0823A_12    | 121731                         | 59866                             | 58661                                   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

Instrument: VOCMS21 • File ID: 0823A\_37-2

08/23/23 22:09

| Sample ID                     | File ID     | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|-------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0823A_37-2  | 143745                         | 68134                             | 63250                                   |
| Upper Limit                   |             | 287490                         | 136268                            | 126500                                  |
| Lower Limit                   |             | 71873                          | 34067                             | 31625                                   |
| LCS R3964817-1 WG2119188 1x   | 0823A_37LCS | 143745                         | 68134                             | 63250                                   |
| LCSD R3964817-2 WG2119188 1x  | 0823A_38    | 109415                         | 71846                             | 65681                                   |
| BLANK R3964817-3 WG2119188 1x | 0823A_41    | 139341                         | 63280                             | 60154                                   |
| L1648719-03 WG2119188 1x      | 0823A_42    | 138571                         | 63771                             | 58611                                   |

## INTERNAL STANDARD SUMMARY

Instrument: BNAMS13 • File ID: 0823B\_03

08/23/23 21:52

| Sample ID                     | File ID  | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|----------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0823B_03 | 30258                      | 15253                        | 25058                        | 17054                    | 12214                    |
| Upper Limit                   |          | 60516                      | 30506                        | 50116                        | 34108                    | 24428                    |
| Lower Limit                   |          | 15129                      | 7627                         | 12529                        | 8527                     | 6107                     |
| LCS R3964808-1 WG2119763 1x   | 0823B_04 | 32851                      | 16625                        | 27398                        | 19722                    | 13934                    |
| LCSD R3964808-2 WG2119763 1x  | 0823B_05 | 32686                      | 16291                        | 26613                        | 18768                    | 13568                    |
| BLANK R3964808-3 WG2119763 1x | 0823B_06 | 31742                      | 15457                        | 25386                        | 16958                    | 11725                    |
| L1648719-01 WG2119763 1x      | 0823B_07 | 30975                      | 15256                        | 24929                        | 16437                    | 11570                    |
| L1648719-02 WG2119763 1x      | 0823B_08 | 28927                      | 14179                        | 23216                        | 15378                    | 10728                    |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# GLOSSARY OF TERMS

## 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.  |
|------------------------------|--|
| 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.  |
| 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.  |



# 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA–Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:  
**Accounts Payable**  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com;marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State Collected:  
**Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**1465751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Janney**

Site/Facility ID #

P.O. #

Collected by (signature):  
*Paul M. Janney*

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

Quote #

Immediately Packed on Ice N  Y

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |
|-----------|-----------|----------|-------|---------|------|--------------|
| DC-4      | G         | GWSS     | -     | 8/22/23 | 0900 | 10           |
| DC-5      | G         | GWSS     | -     | 8/22/23 | 0930 | 10           |
| TB-01     | -         | WSS      | -     | 8/22/23 | -    | 2            |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |
|           |           | SS       |       |         |      |              |

| Analysis / Container / Preservative     | Pres Chk |
|---|----------|
| EPH WA 4ozAmb-NoPres                    |          |
| NWTPHDXNOSGT 4ozClr-NoPres 40mL HCl     |          |
| NWTPHGX 40mIAmb/MeOH10ml/5yr 40mL HCl   |          |
| Pb 6010 2ozClr-NoPres                   |          |
| SV8270PAHSIM 4ozClr-NoPres 40mL No Pres |          |
| Total Solids 4ozClr-NoPres              |          |
| V8260BTEX 40mIAmb/MeOH10ml/5yr HCl      |          |
| VPH WA 40mIAmb/MeOH10ml/5yr             |          |

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/hubs/pas-standard-terms.pdf>

SDG # **L1648719**

**A140**

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **9/26/23 CAM**

Shipped Via: **FedEx Standard**

Remarks | Sample # (lab only)

-01

-02

-03

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

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

|                               |    |  |
|-------------------------------|----|--|
| COC Seal Present/Intact:      | NP | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate:          |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact:        |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used:         |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Sufficient volume sent:       |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| If Applicable                 |    |  |
| VOA Zero Headspace:           |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Preservation Correct/Checked: |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| RAD Screen <0.5 mR/hr:        |    | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

|   |                  |               |  |   |
|---|------------------|---------------|--|---|
| Relinquished by: (Signature)<br><i>Paul M. Janney</i> | Date:<br>8/22/23 | Time:<br>1400 | Received by: (Signature)<br><i>FedEx</i>             | Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>(HCl) MeOH<br>TBR |
| Relinquished by: (Signature)                          | Date:            | Time:         | Received by: (Signature)                             | Temp: 9.0°C<br>5.8-10.5-8<br>20   |
| Relinquished by: (Signature)                          | Date:            | Time:         | Received for lab by: (Signature)<br><i>M. J. ...</i> | Date: 8/23/23 Time: 1830  |

If preservation required by Login: Date/Time

Hold:

Condition:  
 NCF  OK

### 8/23-NCF-L1648719 STANTECBWA

R0/R1

Time estimate: 0h

Time spent: 0h

#### Members



Hailey Melson (responsible)



Jared Starkey

Due on 26 August 2023 8:00 AM for target Done

- Login Clarification needed
- Chain of custody is incomplete
- Please specify Metals requested
- Please specify TCLP requested
- Received additional samples not listed on COC
- Sample IDs on containers do not match IDs on COC
- Client did not "X" analysis
- Chain of Custody is missing
- If no COC: Received by: \_\_\_\_\_
- If no COC: Date/Time: \_\_\_\_\_
- If no COC: Temp./Cont.Rec./pH: \_\_\_\_\_
- If no COC: Carrier: \_\_\_\_\_
- If no COC: Tracking #: \_\_\_\_\_
- Client informed by call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: \_\_\_\_\_
- PM initials: \_\_\_\_\_
- Client Contact: \_\_\_\_\_

#### Comments

|  |                                |
|--|--------------------------------|
| <p><i>Hailey Melson</i></p> <p>Trip blank ID is not marked for analysis. Currently logged on hold.</p> | <p>23 August 2023 10:22 AM</p> |
| <p><i>Jared Starkey</i></p> <p>Please log TB or BTEX/GX</p>  | <p>23 August 2023 10:54 AM</p> |
| <p><i>Hailey Melson</i></p> <p>Done</p>  | <p>23 August 2023 11:05 AM</p> |

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

## Stantec- Bellevue, WA

Sample Delivery Group: L1650989  
Samples Received: 08/30/2023  
Project Number: 185751446  
Description: Hungry Whale

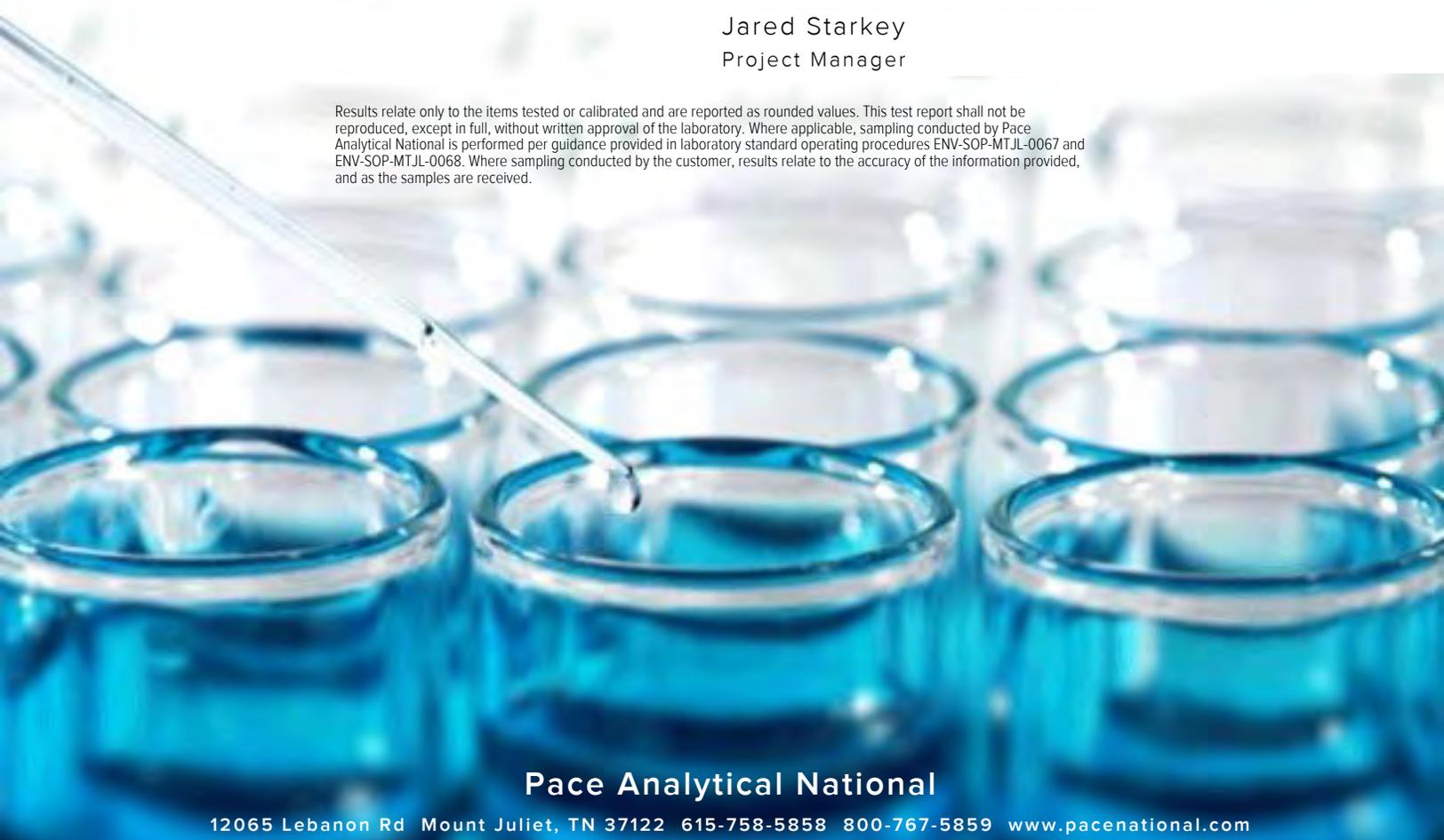
Report To: Stantec  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Entire Report Reviewed By:



Jared Starkey  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## DC-6 L1650989-01 GW

Collected by: Paul Janney  
 Collected date/time: 08/29/23 12:00  
 Received date/time: 08/30/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2123461 | 1        | 08/30/23 12:19        | 08/30/23 12:19     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2123767 | 1        | 08/30/23 12:27        | 08/30/23 12:27     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2123779 | 1        | 08/30/23 11:27        | 08/30/23 14:32     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2123776 | 1        | 08/30/23 11:25        | 08/30/23 14:15     | AMM     | Mt. Juliet, TN |

## DC-DUP L1650989-02 GW

Collected by: Paul Janney  
 Collected date/time: 08/29/23 00:00  
 Received date/time: 08/30/23 09:00

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX             | WG2123461 | 1        | 08/30/23 12:42        | 08/30/23 12:42     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D            | WG2123767 | 1        | 08/30/23 12:48        | 08/30/23 12:48     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2123779 | 1        | 08/30/23 11:27        | 08/30/23 14:58     | TJD     | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM   | WG2123776 | 1        | 08/30/23 11:25        | 08/30/23 14:33     | AMM     | Mt. Juliet, TN |

## TB-01 L1650989-03 GW

Collected by: Paul Janney  
 Collected date/time: 08/29/23 00:00  
 Received date/time: 08/30/23 09:00

| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|--|-----------|----------|-----------------------|--------------------|---------|----------------|
| Volatile Organic Compounds (GC) by Method NWTPHGX  | WG2123461 | 1        | 08/30/23 11:55        | 08/30/23 11:55     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2123767 | 1        | 08/30/23 12:06        | 08/30/23 12:06     | JHH     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey  
Project Manager

## Volatile Organic Compounds (GC) by Method NWTPHGX

---

The same analyte is found in the associated blank.

| Batch     | Analyte                       | Lab Sample ID |
|-----------|-------------------------------|---------------|
| WG2123461 | Gasoline Range Organics-NWTPH | L1650989-03   |

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

---

The associated batch QC was above the established quality control range for accuracy.

| Batch     | Lab Sample ID                     | Analytes             |
|-----------|-----------------------------------|----------------------|
| WG2123776 | (LCS) R3967374-1, L1650989-01, 02 | Benzo(b)fluoranthene |



## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                                 | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---|--------|-----------|------|----------|----------|------------------|---------------------------|
|   | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH           | U      |           | 31.6 | 100      | 1        | 08/30/2023 12:19 | <a href="#">WG2123461</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 92.4   |           |      | 78.0-120 |          | 08/30/2023 12:19 | <a href="#">WG2123461</a> |

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                           | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| (S) Toluene-d8            | 109    |           |        | 80.0-120 |          | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| (S) 4-Bromofluorobenzene  | 94.6   |           |        | 77.0-126 |          | 08/30/2023 12:27 | <a href="#">WG2123767</a> |
| (S) 1,2-Dichloroethane-d4 | 112    |           |        | 70.0-130 |          | 08/30/2023 12:27 | <a href="#">WG2123767</a> |

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

| Analyte                       | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|-------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                               | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Diesel Range Organics (DRO)   | U      |           | 66.7 | 200      | 1        | 08/30/2023 14:32 | <a href="#">WG2123779</a> |
| Residual Range Organics (RRO) | U      |           | 83.3 | 250      | 1        | 08/30/2023 14:32 | <a href="#">WG2123779</a> |
| (S) <i>o</i> -Terphenyl       | 83.7   |           |      | 52.0-156 |          | 08/30/2023 14:32 | <a href="#">WG2123779</a> |

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

| Analyte                     | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                             | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Anthracene                  | U      |           | 0.0190 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Acenaphthene                | U      |           | 0.0190 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Acenaphthylene              | U      |           | 0.0171 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Benzo(a)anthracene          | U      |           | 0.0203 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Benzo(a)pyrene              | U      |           | 0.0184 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Benzo(b)fluoranthene        | U      | J4        | 0.0168 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Benzo(g,h,i)perylene        | U      |           | 0.0184 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Benzo(k)fluoranthene        | U      |           | 0.0202 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Chrysene                    | U      |           | 0.0179 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Dibenz(a,h)anthracene       | U      |           | 0.0160 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Fluoranthene                | U      |           | 0.0270 | 0.100    | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Fluorene                    | U      |           | 0.0169 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Indeno(1,2,3-cd)pyrene      | U      |           | 0.0158 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Naphthalene                 | U      |           | 0.0917 | 0.250    | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Phenanthrene                | U      |           | 0.0180 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| Pyrene                      | U      |           | 0.0169 | 0.0500   | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| 1-Methylnaphthalene         | U      |           | 0.0687 | 0.250    | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| 2-Methylnaphthalene         | U      |           | 0.0674 | 0.250    | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| 2-Chloronaphthalene         | U      |           | 0.0682 | 0.250    | 1        | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| (S) Nitrobenzene-d5         | 90.0   |           |        | 31.0-160 |          | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| (S) 2-Fluorobiphenyl        | 106    |           |        | 48.0-148 |          | 08/30/2023 14:15 | <a href="#">WG2123776</a> |
| (S) <i>p</i> -Terphenyl-d14 | 104    |           |        | 37.0-146 |          | 08/30/2023 14:15 | <a href="#">WG2123776</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                                 | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Gasoline Range Organics-NWTPH   | U      |           | 31.6 | 100      | 1        | 08/30/2023 12:42 | <a href="#">WG2123461</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.3   |           |      | 78.0-120 |          | 08/30/2023 12:42 | <a href="#">WG2123461</a> |

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

| Analyte                   | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|---------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                           | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Benzene                   | U      |           | 0.0941 | 1.00     | 1        | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| Toluene                   | U      |           | 0.278  | 1.00     | 1        | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| Ethylbenzene              | U      |           | 0.137  | 1.00     | 1        | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| Total Xylenes             | U      |           | 0.174  | 3.00     | 1        | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| (S) Toluene-d8            | 106    |           |        | 80.0-120 |          | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| (S) 4-Bromofluorobenzene  | 90.4   |           |        | 77.0-126 |          | 08/30/2023 12:48 | <a href="#">WG2123767</a> |
| (S) 1,2-Dichloroethane-d4 | 113    |           |        | 70.0-130 |          | 08/30/2023 12:48 | <a href="#">WG2123767</a> |

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

| Analyte                       | Result | Qualifier | MDL  | RDL      | Dilution | Analysis         | Batch                     |
|-------------------------------|--------|-----------|------|----------|----------|------------------|---------------------------|
|                               | ug/l   |           | ug/l | ug/l     |          | date / time      |                           |
| Diesel Range Organics (DRO)   | U      |           | 66.7 | 200      | 1        | 08/30/2023 14:58 | <a href="#">WG2123779</a> |
| Residual Range Organics (RRO) | U      |           | 83.3 | 250      | 1        | 08/30/2023 14:58 | <a href="#">WG2123779</a> |
| (S) o-Terphenyl               | 83.2   |           |      | 52.0-156 |          | 08/30/2023 14:58 | <a href="#">WG2123779</a> |

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

| Analyte                | Result | Qualifier | MDL    | RDL      | Dilution | Analysis         | Batch                     |
|------------------------|--------|-----------|--------|----------|----------|------------------|---------------------------|
|                        | ug/l   |           | ug/l   | ug/l     |          | date / time      |                           |
| Anthracene             | U      |           | 0.0190 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Acenaphthene           | U      |           | 0.0190 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Acenaphthylene         | U      |           | 0.0171 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Benzo(a)anthracene     | U      |           | 0.0203 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Benzo(a)pyrene         | U      |           | 0.0184 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Benzo(b)fluoranthene   | U      | J4        | 0.0168 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Benzo(g,h,i)perylene   | U      |           | 0.0184 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Benzo(k)fluoranthene   | U      |           | 0.0202 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Chrysene               | U      |           | 0.0179 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Dibenz(a,h)anthracene  | U      |           | 0.0160 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Fluoranthene           | U      |           | 0.0270 | 0.100    | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Fluorene               | U      |           | 0.0169 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Indeno(1,2,3-cd)pyrene | U      |           | 0.0158 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Naphthalene            | U      |           | 0.0917 | 0.250    | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Phenanthrene           | U      |           | 0.0180 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| Pyrene                 | U      |           | 0.0169 | 0.0500   | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| 1-Methylnaphthalene    | U      |           | 0.0687 | 0.250    | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| 2-Methylnaphthalene    | U      |           | 0.0674 | 0.250    | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| 2-Chloronaphthalene    | U      |           | 0.0682 | 0.250    | 1        | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| (S) Nitrobenzene-d5    | 103    |           |        | 31.0-160 |          | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| (S) 2-Fluorobiphenyl   | 122    |           |        | 48.0-148 |          | 08/30/2023 14:33 | <a href="#">WG2123776</a> |
| (S) p-Terphenyl-d14    | 119    |           |        | 37.0-146 |          | 08/30/2023 14:33 | <a href="#">WG2123776</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte                         | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Gasoline Range Organics-NWTPH   | 35.1           | <u>B</u>  | 31.6        | 100         | 1        | 08/30/2023 11:55        | <a href="#">WG2123461</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.8           |           |             | 78.0-120    |          | 08/30/2023 11:55        | <a href="#">WG2123461</a> |

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

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

| Analyte                   | Result<br>ug/l | Qualifier | MDL<br>ug/l | RDL<br>ug/l | Dilution | Analysis<br>date / time | Batch                     |
|---------------------------|----------------|-----------|-------------|-------------|----------|-------------------------|---------------------------|
| Benzene                   | U              |           | 0.0941      | 1.00        | 1        | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| Toluene                   | U              |           | 0.278       | 1.00        | 1        | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| Ethylbenzene              | U              |           | 0.137       | 1.00        | 1        | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| Total Xylenes             | U              |           | 0.174       | 3.00        | 1        | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| (S) Toluene-d8            | 108            |           |             | 80.0-120    |          | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| (S) 4-Bromofluorobenzene  | 93.9           |           |             | 77.0-126    |          | 08/30/2023 12:06        | <a href="#">WG2123767</a> |
| (S) 1,2-Dichloroethane-d4 | 113            |           |             | 70.0-130    |          | 08/30/2023 12:06        | <a href="#">WG2123767</a> |

Method Blank (MB)

(MB) R3967287-2 08/30/23 11:18

| Analyte                            | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------------------|-------------------|--------------|----------------|----------------|
| Gasoline Range Organics-NWTPH      | 37.1              | ↓            | 31.6           | 100            |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 96.3              |              |                | 78.0-120       |

Laboratory Control Sample (LCS)

(LCS) R3967287-1 08/30/23 10:08

| Analyte                            | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|----------------------|--------------------|---------------|------------------|---------------|
| Gasoline Range Organics-NWTPH      | 5500                 | 5000               | 90.9          | 70.0-124         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                      |                    | 99.4          | 78.0-120         |               |

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

Method Blank (MB)

(MB) R3967296-3 08/30/23 11:02

| Analyte                          | MB Result | MB Qualifier | MB MDL | MB RDL   |
|----------------------------------|-----------|--------------|--------|----------|
|                                  | ug/l      |              | ug/l   | ug/l     |
| Benzene                          | U         |              | 0.0941 | 1.00     |
| Toluene                          | U         |              | 0.278  | 1.00     |
| Ethylbenzene                     | U         |              | 0.137  | 1.00     |
| Total Xylenes                    | U         |              | 0.174  | 3.00     |
| <i>(S) Toluene-d8</i>            | 104       |              |        | 80.0-120 |
| <i>(S) 4-Bromofluorobenzene</i>  | 90.9      |              |        | 77.0-126 |
| <i>(S) 1,2-Dichloroethane-d4</i> | 111       |              |        | 70.0-130 |

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

(LCS) R3967296-1 08/30/23 09:58 • (LCSD) R3967296-2 08/30/23 10:41

| Analyte                          | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|                                  | ug/l         | ug/l       | ug/l        | %        | %         | %           |               |                | %    | %          |
| Benzene                          | 5.00         | 5.16       | 4.72        | 103      | 94.4      | 70.0-123    |               |                | 8.91 | 20         |
| Toluene                          | 5.00         | 4.63       | 4.55        | 92.6     | 91.0      | 79.0-120    |               |                | 1.74 | 20         |
| Ethylbenzene                     | 5.00         | 4.50       | 4.32        | 90.0     | 86.4      | 79.0-123    |               |                | 4.08 | 20         |
| Total Xylenes                    | 15.0         | 13.2       | 12.1        | 88.0     | 80.7      | 79.0-123    |               |                | 8.70 | 20         |
| <i>(S) Toluene-d8</i>            |              |            |             | 102      | 102       | 80.0-120    |               |                |      |            |
| <i>(S) 4-Bromofluorobenzene</i>  |              |            |             | 89.9     | 94.6      | 77.0-126    |               |                |      |            |
| <i>(S) 1,2-Dichloroethane-d4</i> |              |            |             | 112      | 116       | 70.0-130    |               |                |      |            |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

Method Blank (MB)

(MB) R3967495-1 08/30/23 13:15

| Analyte                       | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|-------------------------------|-------------------|--------------|----------------|----------------|
| Diesel Range Organics (DRO)   | U                 |              | 66.7           | 200            |
| Residual Range Organics (RRO) | U                 |              | 83.3           | 250            |
| <i>(S) o-Terphenyl</i>        | 82.0              |              |                | 52.0-156       |

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

(LCS) R3967495-2 08/30/23 13:40 • (LCSD) R3967495-3 08/30/23 14:06

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Diesel Range Organics (DRO) | 1500                 | 1480               | 1470                | 98.7          | 98.0           | 50.0-150         |               |                | 0.678    | 20              |
| <i>(S) o-Terphenyl</i>      |                      |                    |                     | 100           | 100            | 52.0-156         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3967374-3 08/30/23 13:58

| Analyte                | MB Result<br>ug/l | MB Qualifier | MB MDL<br>ug/l | MB RDL<br>ug/l |
|------------------------|-------------------|--------------|----------------|----------------|
| Anthracene             | U                 |              | 0.0190         | 0.0500         |
| Acenaphthene           | U                 |              | 0.0190         | 0.0500         |
| Acenaphthylene         | U                 |              | 0.0171         | 0.0500         |
| Benzo(a)anthracene     | U                 |              | 0.0203         | 0.0500         |
| Benzo(a)pyrene         | U                 |              | 0.0184         | 0.0500         |
| Benzo(b)fluoranthene   | U                 |              | 0.0168         | 0.0500         |
| Benzo(g,h,i)perylene   | U                 |              | 0.0184         | 0.0500         |
| Benzo(k)fluoranthene   | U                 |              | 0.0202         | 0.0500         |
| Chrysene               | U                 |              | 0.0179         | 0.0500         |
| Dibenz(a,h)anthracene  | U                 |              | 0.0160         | 0.0500         |
| Fluoranthene           | U                 |              | 0.0270         | 0.100          |
| Fluorene               | U                 |              | 0.0169         | 0.0500         |
| Indeno(1,2,3-cd)pyrene | U                 |              | 0.0158         | 0.0500         |
| Naphthalene            | U                 |              | 0.0917         | 0.250          |
| Phenanthrene           | U                 |              | 0.0180         | 0.0500         |
| Pyrene                 | U                 |              | 0.0169         | 0.0500         |
| 1-Methylnaphthalene    | U                 |              | 0.0687         | 0.250          |
| 2-Methylnaphthalene    | U                 |              | 0.0674         | 0.250          |
| 2-Chloronaphthalene    | U                 |              | 0.0682         | 0.250          |
| (S) Nitrobenzene-d5    | 103               |              |                | 31.0-160       |
| (S) 2-Fluorobiphenyl   | 123               |              |                | 48.0-148       |
| (S) p-Terphenyl-d14    | 131               |              |                | 37.0-146       |

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

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

(LCS) R3967374-1 08/30/23 13:22 • (LCSD) R3967374-2 08/30/23 13:40

| Analyte               | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Anthracene            | 2.00                 | 2.34               | 2.26                | 117           | 113            | 67.0-150         |               |                | 3.48     | 20              |
| Acenaphthene          | 2.00                 | 2.46               | 2.46                | 123           | 123            | 65.0-138         |               |                | 0.000    | 20              |
| Acenaphthylene        | 2.00                 | 2.35               | 2.32                | 117           | 116            | 66.0-140         |               |                | 1.28     | 20              |
| Benzo(a)anthracene    | 2.00                 | 2.39               | 2.33                | 119           | 117            | 61.0-140         |               |                | 2.54     | 20              |
| Benzo(a)pyrene        | 2.00                 | 2.72               | 2.66                | 136           | 133            | 60.0-143         |               |                | 2.23     | 20              |
| Benzo(b)fluoranthene  | 2.00                 | 2.94               | 2.76                | 147           | 138            | 58.0-141         | J4            |                | 6.32     | 20              |
| Benzo(g,h,i)perylene  | 2.00                 | 2.84               | 2.84                | 142           | 142            | 52.0-153         |               |                | 0.000    | 20              |
| Benzo(k)fluoranthene  | 2.00                 | 2.65               | 2.67                | 133           | 133            | 58.0-148         |               |                | 0.752    | 20              |
| Chrysene              | 2.00                 | 2.67               | 2.62                | 133           | 131            | 64.0-144         |               |                | 1.89     | 20              |
| Dibenz(a,h)anthracene | 2.00                 | 2.69               | 2.67                | 134           | 133            | 52.0-155         |               |                | 0.746    | 20              |
| Fluoranthene          | 2.00                 | 2.62               | 2.57                | 131           | 129            | 69.0-153         |               |                | 1.93     | 20              |

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

(LCS) R3967374-1 08/30/23 13:22 • (LCSD) R3967374-2 08/30/23 13:40

| Analyte                     | Spike Amount<br>ug/l | LCS Result<br>ug/l | LCSD Result<br>ug/l | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|-----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Fluorene                    | 2.00                 | 2.48               | 2.53                | 124           | 126            | 64.0-136         |                      |                       | 2.00     | 20              |
| Indeno(1,2,3-cd)pyrene      | 2.00                 | 2.73               | 2.65                | 137           | 133            | 54.0-153         |                      |                       | 2.97     | 20              |
| Naphthalene                 | 2.00                 | 2.50               | 2.47                | 125           | 123            | 61.0-137         |                      |                       | 1.21     | 20              |
| Phenanthrene                | 2.00                 | 2.56               | 2.52                | 128           | 126            | 62.0-137         |                      |                       | 1.57     | 20              |
| Pyrene                      | 2.00                 | 2.68               | 2.66                | 134           | 133            | 60.0-142         |                      |                       | 0.749    | 20              |
| 1-Methylnaphthalene         | 2.00                 | 2.55               | 2.50                | 128           | 125            | 66.0-142         |                      |                       | 1.98     | 20              |
| 2-Methylnaphthalene         | 2.00                 | 2.62               | 2.58                | 131           | 129            | 62.0-136         |                      |                       | 1.54     | 20              |
| 2-Chloronaphthalene         | 2.00                 | 2.54               | 2.48                | 127           | 124            | 64.0-140         |                      |                       | 2.39     | 20              |
| <i>(S)</i> Nitrobenzene-d5  |                      |                    |                     | 111           | 105            | 31.0-160         |                      |                       |          |                 |
| <i>(S)</i> 2-Fluorobiphenyl |                      |                    |                     | 131           | 127            | 48.0-148         |                      |                       |          |                 |
| <i>(S)</i> p-Terphenyl-d14  |                      |                    |                     | 130           | 126            | 37.0-146         |                      |                       |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

Instrument: VO CGC15 • File ID: 0830\_03

08/30/23 09:45

| Sample ID                     | File ID | FLUOROBENZENE (FID)<br>Response | FLUOROBENZENE (PID)<br>Response |
|-------------------------------|---------|---------------------------------|---------------------------------|
| Standard                      | 0830_03 | 179967600                       | 126968                          |
| Upper Limit                   |         | 359935200                       | 253936                          |
| Lower Limit                   |         | 89983800                        | 63484                           |
| LCS R3967287-1 WG2123461 1x   | 0830_04 | 218830400                       | 47790                           |
| BLANK R3967287-2 WG2123461 1x | 0830_06 | 176584000                       | 72274                           |
| L1650989-03 WG2123461 1x      | 0830_07 | 206369600                       | 139669                          |
| L1650989-01 WG2123461 1x      | 0830_08 | 201195600                       | 93028                           |
| L1650989-02 WG2123461 1x      | 0830_09 | 211229900                       | 72441                           |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Is

<sup>8</sup> Gl

<sup>9</sup> Al

<sup>10</sup> Sc

# INTERNAL STANDARD SUMMARY

Instrument: VOCMS6 • File ID: 0830\_13-1

08/30/23 09:58

| Sample ID                     | File ID    | 8260-FLUOROBENZENE<br>Response | 8260-CHLOROBENZENE-D5<br>Response | 8260-1,4-DICHLOROBENZENE-D4<br>Response |
|-------------------------------|------------|--------------------------------|-----------------------------------|---|
| Standard                      | 0830_13-1  | 317668                         | 164707                            | 145733                                  |
| Upper Limit                   |            | 635336                         | 329414                            | 291466                                  |
| Lower Limit                   |            | 158834                         | 82354                             | 72867                                   |
| LCS R3967296-1 WG2123767 1x   | 0830_13LCS | 317668                         | 164707                            | 145733                                  |
| LCSD R3967296-2 WG2123767 1x  | 0830_15    | 309393                         | 161812                            | 146133                                  |
| BLANK R3967296-3 WG2123767 1x | 0830_16    | 323148                         | 150215                            | 129996                                  |
| L1650989-03 WG2123767 1x      | 0830_19    | 308954                         | 144039                            | 127353                                  |
| L1650989-01 WG2123767 1x      | 0830_20    | 305767                         | 139922                            | 119970                                  |
| L1650989-02 WG2123767 1x      | 0830_21    | 307285                         | 142498                            | 123347                                  |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Is

<sup>8</sup>Gl

<sup>9</sup>Al

<sup>10</sup>Sc

## INTERNAL STANDARD SUMMARY

Instrument: BNAMS25 • File ID: 0830\_03

08/30/23 12:39

| Sample ID                     | File ID | NAPHTHALENE-D8<br>Response | ACENAPHTHENE-D10<br>Response | PHENANTHRENE-D10<br>Response | CHRYSENE-D12<br>Response | PERYLENE-D12<br>Response |
|-------------------------------|---------|----------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Standard                      | 0830_03 | 59772                      | 36009                        | 67480                        | 63183                    | 54193                    |
| Upper Limit                   |         | 119544                     | 72018                        | 134960                       | 126366                   | 108386                   |
| Lower Limit                   |         | 29886                      | 18005                        | 33740                        | 31592                    | 27097                    |
| LCS R3967374-1 WG2123776 1x   | 0830_04 | 50350                      | 27622                        | 48249                        | 43450                    | 36437                    |
| LCSD R3967374-2 WG2123776 1x  | 0830_05 | 51844                      | 28229                        | 50340                        | 44294                    | 35861                    |
| BLANK R3967374-3 WG2123776 1x | 0830_06 | 50403                      | 27847                        | 48952                        | 41066                    | 33349                    |
| L1650989-01 WG2123776 1x      | 0830_07 | 60656                      | 33615                        | 58887                        | 50241                    | 40418                    |
| L1650989-02 WG2123776 1x      | 0830_08 | 52387                      | 29053                        | 51541                        | 42893                    | 34231                    |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

# GLOSSARY OF TERMS

## 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.  |
| 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.  |
| 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

|    |   |
|----|---|
| B  | The same analyte is found in the associated blank.                                      |
| J  | The identification of the analyte is acceptable; the reported value is an estimate.     |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |



# 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 <sup>1</sup>     | TN00003          |
| Colorado                      | TN00003     | New York                    | 11742            |
| Connecticut                   | PH-0197     | North Carolina              | Env375           |
| Florida                       | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                       | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>          | 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 <sup>1,6</sup>       | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>         | 16          | South Dakota                | n/a              |
| Louisiana                     | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana                     | LA018       | Texas                       | T104704245-20-18 |
| Maine                         | TN00003     | Texas <sup>5</sup>          | 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 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                        | 1461.01     | USDA                        | P330-15-00234    |
| EPA-Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Company Name/Address:  
**Stantec- Bellevue, WA**

11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Billing Information:

Accounts Payable  
11130 NE 33rd Pl, Ste 200  
Bellevue, WA 98004

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



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/hubs/pas-standard-terms.pdf>

SDG # **U658989**

**G038**

Acctnum: **STANTECBWA**

Template: **T234672**

Prelogin: **P1013674**

PM: **546 - Jared Starkey**

PB: **True 23 CAM**

Shipped Via: **FedEX Standard**

Remarks | Sample # (lab only)

Report to:  
**Stantec**

Email To:  
zak.armacost@stantec.com; marc.suaze@stantec.com

Project Description:  
**Hungry Whale Test Pitting**

City/State  
Collected: **Westport, WA**

Please Circle:  
 PT  MT  CT  ET

Phone: **425-869-9448**

Client Project #  
**145751446**

Lab Project #  
**STANTECBWA-HUNGRY**

Collected by (print):  
**Paul Jorney**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Paul M. Jorney**

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  
**ASAP**

No.  
of  
Cntrs

Immediately  
Packed on Ice N \_\_\_ Y \_\_\_

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs | EPH WA 4ozAmb-NoPres | NWTPHDXNOSGT 4ozClr-NoPres 40mL HCl | NWTPHGX 40mIAmb/MeOH10m/Syr 40mL HCl | Pb 6010 2ozClr-NoPres | SV8270PAHSIM 4ozClr-NoPres 40mL NoPres | Total Solids 4ozClr-NoPres | V8260BTEX 40mIAmb/MeOH10m/Syr 40mL HCl | VPH WA 40mIAmb/MeOH10m/Syr |
|-----------|-----------|----------|-------|---------|------|--------------|----------------------|-------------------------------------|--------------------------------------|-----------------------|--|----------------------------|--|----------------------------|
| DC-6      | G         | GW-SS    | -     | 8/29/23 | 1200 | 11           |                      | X                                   | X                                    |                       | X                                      |                            | X                                      |                            |
| DC-Dup    | G         | GW-SS    | -     | 8/29/23 | -    | 11           |                      | X                                   | X                                    |                       | X                                      |                            | X                                      |                            |
| TB-01     | G         | W-SS     | -     | 8/29/23 | -    | 2            |                      |                                     | X                                    |                       |  |                            | X                                      |                            |
|           |           | 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: **PAH containers triple rinsed - Unpreserved.**

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Samples returned via:  
\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **5841 8346 8791**

| Sample Receipt Checklist      |   |
|-------------------------------|---|
| COC Seal Present/Intact:      | NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| COC Signed/Accurate:          | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| Bottles arrive intact:        | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| Correct bottles used:         | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| Sufficient volume sent:       | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| if Applicable                 |   |
| VOA Zero Headspace:           | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| Preservation Correct/Checked: | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |
| RAD Screen <0.5 mR/hr:        | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>    |

Relinquished by: (Signature)  
**Paul M. Jorney**

Date: **8/29/23**  
Time: **1530**

Received by: (Signature)  
**FedEx**

Trip Blank Received: **2** Yes/No  
HCL/MeOH  
TBR

Relinquished by: (Signature)

Date:   
Time:   
Temp: **6.5/56**

Received by: (Signature)

Bottles Received: **22**  
**5.6 x 20 = 56**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:   
Time:   
Date: **8/30/23**

Received for lab by: (Signature)

Time: **0900**

Hold:   
Condition: **NCF / OK**

# APPENDIX K

## Compaction Test Results and Filter Fabric Specifications





**Port of Grays Harbor Hungry Whale - 23S160 - IPD-Soil Compaction: Report #D317356**

**CLIENT** Anderson Environmental Contracting, LLC **DATE** 09/01/2023  
**PROJECT LOCATION** 1680 North Montesano Street Westport WA 98595 **PERMIT #**

**Inspection Information:**

**Inspection Date:** 09/01/2023 **Time Onsite:** 11:15 AM **Weather Conditions:** Partly Cloudy 60s F

**Inspection Performed:** IPD-Soil Compaction

**Field Data:**

**Work / Location:** Grading/Open Lot Area at intersection of N Montesano and W Wilson **Gauge Standard MS:** 752

**Equipment ID & Serial #:** Instrotek 3500, Ser. #4547 **Gauge Standard DS:** 2677

**Test Samples:**

| Sample #:   | Description:                 | Proctor Value(pcf): | Optimum Moisture | Oversize Rock Correction: |
|-------------|------------------------------|---------------------|------------------|---------------------------|
| 1. S23-0971 | Well Graded Gravel with Sand | 116.5               | 3.7              |                           |

**TEST METHOD**  ASTM D-1557 /AASHTO T-180

**In Place Density Test Results (ASTM D-6938):**

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Reqd. |
|--------|--------------|------------------|-------|-----------|-----------|---------|----------|---------|---------|
| 1      | 8            | East Edge        | FSG   | 128.3     | 121.3     | 5.8     | 1        | 104.1   | 95      |
| 2      | 8            | West Edge        | FSG   | 123.9     | 114.9     | 7.8     | 1        | 98.6    | 95      |
| 3      | 6            | North Edge       | FSG   | 129.2     | 120.6     | 7.1     | 1        | 103.5   | 95      |
| 4      | 8            | South Edge       | FSG   | 123.2     | 115.7     | 6.5     | 1        | 99.3    | 95      |

- Native Soils Soils consistent with Proctor  Yes  No
- Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction  Yes  No
- Contractor notified of results  Yes  No

**Remarks:**

On site for density testing of previously placed and compacted fill at the location noted above. Earthwork and grading was performed by the Port of Westport. Contractor placed approximately 8"-12" of structural fill over 15' of permeable ballast and achieved compaction using a Hamm H10i vibratory steel drum roller. Material appeared to be very well compacted, displaying very little deflection beneath roller. Please see above for all in place density results.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

**Images:**

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

**Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing**

Burlington|Olympia|Bellingham|Silverdale|Tukwila  
360.755.1990

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UPLOADED: 09/04/2023 13:28:08



UPLOADED: 09/04/2023 13:28:10



UPLOADED: 09/04/2023 13:40:33



UPLOADED: 09/04/2023 13:40:34

REPORTED BY: Cecil Clark

REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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Burlington|Olympia|Bellingham|Silverdale|Tukwila

360.755.1990

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## Mirafi<sup>®</sup> 140N

Mirafi<sup>®</sup> 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

| Mechanical Properties          | Test Method | Unit   | Minimum Average Roll Value |            |
|--------------------------------|-------------|--|----------------------------|------------|
|                                |             |  | MD                         | CD         |
| Grab Tensile Strength          | ASTM D 4632 | kN (lbs)   | 0.53 (120)                 | 0.53 (120) |
| Grab Tensile Elongation        | ASTM D 4632 | %  | 50                         | 50         |
| Trapezoid Tear Strength        | ASTM D 4533 | kN (lbs)   | 0.22 (50)                  | 0.22 (50)  |
| Mullen Burst Strength          | ASTM D 3786 | kPa (psi)  | 1550 (225)                 |            |
| Puncture Strength <sup>1</sup> | ASTM D 4833 | kN (lbs)   | 0.30 (65)                  |            |
| CBR Puncture Strength          | ASTM D 6241 | kN (lbs)   | 1.33 (300)                 |            |
| Apparent Opening Size (AOS)    | ASTM D 4751 | mm<br>(U.S. Sieve)                                 | 0.212<br>(70)              |            |
| Permittivity                   | ASTM D 4491 | sec <sup>-1</sup>                                  | 1.8                        |            |
| Permeability                   | ASTM D 4491 | cm/sec   | 0.21                       |            |
| Flow Rate                      | ASTM D 4491 | l/min/m <sup>2</sup><br>(gal/min/ft <sup>2</sup> ) | 5500<br>(135)              |            |
| UV Resistance (at 500 hours)   | ASTM D 4355 | % strength retained                                | 70                         |            |

<sup>1</sup> ASTM D 4833 has been replaced with ASTM D 6241

| Physical Properties                 | Test Method | Unit                                   | Typical Value             |                         |
|-------------------------------------|-------------|--|---------------------------|-------------------------|
| Weight                              | ASTM D 5261 | g/m <sup>2</sup> (oz/yd <sup>2</sup> ) | 163 (4.8)                 |                         |
| Thickness                           | ASTM D 5199 | mm (mils)                              | 1.4 (55)                  |                         |
| Roll Dimensions<br>(width x length) | --          | m<br>(ft)                              | 3.8 x 110<br>(12.5 x 360) | 4.5 x 110<br>(15 x 360) |
| Roll Area                           | --          | m <sup>2</sup> (yd <sup>2</sup> )      | 418 (500)                 | 502 (600)               |
| Estimated Roll Weight               | --          | kg (lb)                                | 74 (164)                  | 89 (197)                |

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