Phase II Environmental Site Assessment
Dagmars Marina
1871 Ross Ave
Everett, WA

Prepared for:
1870 Ross Partners, LLC c/o Alterra Property Group, LLC

November 21, 2022
ALT021-0313032-22008149

Phase II Environmental Site Assessment
Dagmars Marina
1871 Ross Ave
Everett, Washington

Prepared for:
1870 Ross Partners, LLC c/o Alterra Properties Group, LLC

November 21, 2022
ALT021-0313032-22008149

Anders Utter
Project Manager

State of Washington
Hydrogeologist
1778
Licensed Geologist
JOHN P. FOXWELL

John P. Foxwell, LHg
Senior Associate

Table of Contents

Tables

Figures

Appendices

1.0 Introduction

This Phase II Environmental Site Assessment (ESA) Report was prepared for 1870 Ross Partners, LLC c/o Alterra Properties Group LLC in connection with their potential acquisition of the Dagmars Marina Facility (the Site) located at 1871 Ross Avenue, Everett, Washington (Figure 1).

A Phase I Environmental Site Assessment (Phase I ESA; Apex, 2022) was previously completed by Apex Companies, LLC (Apex) in August 2022. In summary, the Phase I ESA identified the following recognized environmental concerns (RECs):

- Two 20,000-gallon aboveground storage tanks (ASTs) near the Dagmar Marinas Maintenance Shop in the northeast corner of the site. The gasoline AST exhibited leaks from AST piping to the dispenser. Both ASTs exhibited surface soil staining outside of containment and on the surface where the mobile tanker truck is fueled.
- The former AST on site, based on its condition as reported by Ecology in 2007. Ecology conducted a National Pollutant Discharge Elimination System (NPDES) compliance site inspection in 2007 because the site had not been visited since 1993, and described the condition of the AST as requiring immediate replacement. Upgrades to AST systems and containment were made and a subsequent inspection in 2018 did not result in violations.
- A limited area of soil staining was observed on the exterior gravel surface adjacent to Dagmar's Maintenance Shop area which houses a 500-gallon AST.
- Two apparent vaults located near the "old barn." The vaults could be relic petroleum underground storage tanks (USTs) or vaults related to the former dairy use.
- The Confirmed and Suspected Contaminated Site List (CSCSL) listing at the Site. This is related to arsenic contamination in groundwater identified during pre-construction activities for utilities in 2004. Sources for the contamination are unknown and investigations have not been completed to confirm the arsenic concentration.
- A maintenance operation which has been present at the Snohomish Marine building (formerly Mercer Marine) near the entrance of Dagmar's Marina since approximately 1980. Based on the continuity of use for boat services at this location, and observations recorded by Ecology during an NDPES compliance site inspection in 2007, this area of the site is a REC.

Subsequent to the Phase I ESA, a review of the Site's compliance with the conditions of the stormwater General Boatyard Permit was completed. A recent 2021 inspection by the Washington Department of Ecology (Ecology) identified several areas of non-compliance related to stormwater management on the Site. Consequently, characterization of the stormwater drainage system was included in the Phase II ESA scope.

The objectives of the Phase II ESA were to:

- Characterize soil conditions and groundwater (if present) at the current AST area near the maintenance shop.
- Characterize the former AST area where relic diesel products were stored.
- Characterize soil conditions near the flammable liquid storage area where visual staining was observed outside the maintenance shop.
- Investigate the two apparent vaults near the old barn and identify historical use of the vaults and current contents.
- Further assess whether arsenic impacts related to the 2004 CSCSL listing are present in groundwater.
- Characterize soil conditions and groundwater (if present) at the Snohomish Marine building.
- Characterize drainage sediment conditions from stormwater outfall locations, as well as the northern surface drainage area connected to the Site's stormwater system.

2.0 Site Description

The Site is located in an industrial setting approximately 4 miles north of downtown Everett and is comprised of two parcels adjacent to the Snohomish River and Interstate 5, totaling 37 acres. The Facility is used for on-land storage of marine vessels and includes a fueling operation and maintenance shop. Current tenants at Dagmars Marina include Snohomish Marine Maintenance, Boat Country Sales, Signal Trailer Sales, and a cellular data station. The cellular station sits several feet above the grade of the remainder of the site. Based on the Phase I ESA (Apex, 2022), the parcels were initially developed in the 1950s, and the current development (boat dock storage, marine maintenance, and equipment sales) has been present since the 1980s. ASTs related to boat fueling and maintenance shops, along with general marine maintenance, have been present on the Site since the 1980s. The Snohomish Marine and Dagmar Maintenance Shop buildings have been onsite since the late 1970s. Prior to the 1980s, the site was used for agricultural and dairy operations. The current layout of the Site is shown on Figure 3.

3.0 Pre-Investigation Activities

Site Health and Safety Plan. A Site-specific health and safety plan (HASP) was prepared for the field activities. The HASP was prepared in general accordance with the Occupational Safety and Health Administration (OSHA) requirements in Code of Federal Regulations (CFR) 1910.120 and applicable Washington Administrative Codes (WAC). A copy of the HASP was maintained on-site during the field activities.

Subcontractor Solicitation. Apex solicited the following subcontractors to complete portions of this work:

- CNI Locates of Bonney Lake, Washington completed the private utility locating services;
- Geophysical Survey LLC of Kennewick, Washington completed the geophysical survey;
- Clearcreek Contractors of Everett, Washington completed brush removal for outfall sample location access;
- Anderson Environmental Contracting (AEC) of Kelso, Washington completed the drilling services; and
- Apex Analytical of Tigard, Oregon completed a portion of the soil and sediment analytical services, and Pace Analytical of Mt. Juliet, Tennessee completed the remaining soil, sediment, and groundwater laboratory analytical services.

Geophysical Survey. On August 29, 2022, a geophysical survey was conducted at the area of the vaults and the Dagmars Maintenance Shop. Survey methods included a ground penetrating radar (GPR) survey using a Geophysical Survey Systems, Inc (GSSI) G1 control unit and 350 megahertz (MHz) antenna. A Trimble Pro6H GPS with sub-foot accuracy (less than 12 inches) was used to map site features. The geophysical survey mapped subsurface features such as buried utilities, an apparent pipe existing the historic barn into the adjacent field, vaults, and drainage control structures. During the survey of the suspected vault area, metal plates were located on the surface of a 20-foot by 30-foot reinforced concrete lid. The concrete is approximately 8 inches thick. The vault below the lid was filled with suspected stormwater. A catch basin, approximately 10 by 12 feet, and a buried storm grate were detected on the east side of the maintenance shop. The geophysical survey report is included in Appendix A.

Underground Utility Locates. Underground utilities were located and marked prior to beginning the field investigation work. This included contacting the Washington Utility Notification Center, who in turn notified the various utilities in the area to mark any underground installations. Underground utilities were identified by CNI Locates and Geophysical Survey LLC prior to subsurface work. During the utility locate of the Snohomish Marine area, a small septic tank was identified approximately 5 to 10 feet northwest of the hazardous waste storage area. According to site personnel, this septic tank was installed to manage wastewater generated by Snohomish Marine. This tank was presumably connected to the shop via surface piping. The utility locate did not identify any piping entering or leaving the small septic tank.

Brush Removal at Northern and Southern Drainages. On September 14, 2022, vegetation was removed from the northern and southern surface drainage areas in order to gain access to drainage sediment sampling locations. Vegetation removal was conducted by Clearcreek Contractors.

4.0 Phase II ESA Activities

The Phase II ESA activities were completed to characterize soil, groundwater, and/or drainage sediment conditions at each investigation area. The sections below summarize the site investigation activities.

4.1 Direct-Push Explorations

On September 15 through 16 and September 28, 2022, borings were advanced at 14 locations on the Site (Figures 5 and 6). The borings were completed as follows:

- Borings AST-1 through AST-3 were completed to evaluate the lateral and vertical extent of soil conditions related to the two current 20,000-gallon ASTs onsite;
- Borings SB-5 and SB-6 were completed to evaluate the lateral and vertical extent of soil conditions related to the former AST located in the northern portion of the Site;
- Borings Shop-1 and Shop-2 were completed to characterize the soil conditions in the vicinity of the observed staining outside the maintenance shop near the chemical storage area;
- Borings Vault-1, Vault-2, and Barn-1 were completed to investigate the suspected vault area and outflow pipe identified approximately 60 feet east of the vaults; and
- Borings SB-1 through SB-4 were completed to investigate historical waste storage and outdoor marine maintenance areas connected to the current Snohomish Marine Maintenance building.

Soil boring depths ranged from 5 to 20 feet below ground surface (bgs). Soil lithology was logged and screened continuously in each boring. Lithologic logs are included in Appendix B. Soils encountered in the explorations consisted of surface fill underlain by unconsolidated fine-grained alluvium. Groundwater was encountered infrequently throughout the Site during soil boring exploration. Groundwater was recorded between 5 to 10 feet bgs when encountered.

Soil from each exploration was field-screened with a photoionization detector (PID) and sheen test. PID headspace screenings for volatile organic compounds (VOCs) were negative at all boring locations except for the following:

- Elevated PID readings were encountered north of the current ASTs in soil boring AST-2. The highest PID screening was 226.5 parts per million (ppm) at a depth of 3 feet bgs but quickly decreased to 13 ppm by 4 feet bgs and less than 5 ppm by 7 feet bgs.
- Elevated PID screening levels in soil boring SB-4 were encountered downgradient of the Snohomish Marine building. The highest PID screening was 30.0 ppm at a depth of 9.5 feet bgs but decreased to less than 5 ppm by 14 feet bgs.

Saturated soil conditions were observed, so a temporary monitoring well was constructed in soil boring SB-4 to collect a groundwater sample. Groundwater was observed at approximately 10 feet bgs. Sample GW4 was collected and submitted for chemical analysis.

4.2 Groundwater Monitoring Well Installation and Sampling

Groundwater monitoring well MW-1 was installed to characterize and monitor groundwater conditions related to the CSCSL listing regarding elevated arsenic concentrations near historical sample location SDM-4. MW-1 is shown on Figure 4. The boring for MW-1 was advanced by a direct-push method (Geoprobe™) to the depth of groundwater, approximately 10 to 15 feet bgs. The monitoring well was installed in accordance with WAC Chapter 173-160, constructed using two-inch-diameter polyvinyl chloride (PVC) casing and a 10-foot-long screen, and finished with a flush-mount, traffic-rated monument. The boring log and well construction details are shown in Appendix B. Soil samples were field screened at 2.5-foot intervals using a PID.

Following construction, the monitoring well was developed to minimize the turbidity of the groundwater sample collected for analysis and to optimize the hydraulic efficiency of the well. The well was developed by surging and pumping. Development was considered complete when the purge water was visually clear, and after electrical conductivity, temperature, and pH had stabilized for three successive casing measurements.

Groundwater monitoring was completed on October 6, 2022. Depth to groundwater during the event was 4.5 feet bgs. Groundwater samples were collected from monitoring well MW-1 using a peristaltic pump with new tubing.

4.3 Drainage and Slough Sediment Samples

On September 14 and September 27, 2022, 16 drainage sediment samples were collected from stormwater outfall locations and the northern surface drainage. Samples were collected at the locations of each stormwater outfall identified in the site Stormwater Pollution Prevention Plan (SWPPP; Figures 7 and 8) except for Outfall-10 and Outfall-14. These locations are understood to be French drains and were inaccessible. The drainage sediment samples were collected as follows.

- Outfall-1 through Outfall-4 were collected to characterize stormwater runoff from the western portion of Dagmars Marina.
- Outfall-5 and Outfall-11 through Outfall-13 were collected to characterize stormwater runoff from property leased by tenant Signal Trailer on the southeastern portion of the Site.
- Outfall-6 was collected to characterize stormwater runoff from property leased by tenant Boat Country Sales.

- Outfall-7 was collected to characterize stormwater runoff from dry storage operations on the eastern portion of the Site.
- Outfall-8 was collected to characterize stormwater runoff from the Dagmars maintenance building and current AST location.
- Outfall-9 was collected to characterize stormwater runoff at the terminal of the northern slough and dry dock storage operations in the northern portion of the Site.
- Slough-1 through Slough-4 were collected to characterize the southern end of Union Slough located in the northern portion of the Site.

The drainage sediment samples were collected from the immediate area of each outfall as a bulk sample. Each sample was collected from between 0 and 6 inches beneath the drainage surface. The northern surface drainage sample consisted of one composite sample prepared from four sub-samples (Slough-1 through Slough-4). Drainage sediments from each location were field screened with a photoionization detector (PID). PID headspace screenings for VOCs were negative.

4.4 Investigation Derived Waste

Investigation-derived waste (IDW) consisted of soil cuttings and purge water. IDW soil was placed in a single 55-gallon Department of Transportation (DOT)-approved drum, and IDW water was placed in a single 55-gallon DOT-approved drum. IDW is temporarily stored in a designated area on the Site. The drums were labeled with the project name, generator name, contact number, general contents, and date. Waste disposal is pending.

5.0 Analytical Results

Laboratory analyses were completed by Pace National Laboratory of Mt. Juliet, Tennessee and Apex Laboratories of Tigard, Oregon. Analytical results for soil and groundwater samples are summarized in Tables 1 through 6 and analytical results for drainage sediment samples are summarized in Tables 7 through 11.

Soil and groundwater samples were analyzed using one or more of the following methods:

- Gasoline range organics (GRO) using Northwest Method TPH-Gx;
- Diesel range organics (DRO) and residual oil range organics (RRO) using Northwest Method TPH-Dx;
- VOCs using Environmental Protection Agency (EPA) Method 8260, with EPA 5035 preservation;
- Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, copper, nickel, and zinc) using EPA 6020B and 7471B;

- Organochlorine pesticides using EPA Method 8081;
- Organophosphate pesticides using EPA Method 8141;
- Chlorinated herbicides using EPA Method 8151; and
- Polychlorinated biphenyls (PCBs) using EPA Method 8082.

Drainage sediment samples were submitted for chemical analysis for one or more of the following:

- DRO and RRO using EPA NWTPH-Dx;
- Polycyclic aromatic hydrocarbons (PAHs) using EPA 8270E;
- Metals using EPA 6020B and 7471B;
- Organochlorine pesticides using EPA Method 8081;
- Organophosphate pesticides using EPA Method 8141;
- Chlorinated herbicides using EPA Method 8151;
- PCBs using EPA Method 8082; and
- Chlorinated phenols using EPA 8270E.

Samples were analyzed on standard turnaround time with the exception of the groundwater sample from MW-1, which was analyzed on a 48-hour turnaround time. Copies of the laboratory reports are included in Appendix C.

5.1 Soil Analysis and Results

Soil analytical results and MTCA Method A Cleanup Levels (CULs) are shown in Tables 1 through 11. Soil sampling results confirmed petroleum hydrocarbons and constituents were present on the northern side of the current ASTs and near the maintenance shop in association with observed soil staining. Figures 5 and 6 summarize soil concentrations. The sample results for each investigation area are described below.

Current AST Area. Soil samples from the current AST area were analyzed for petroleum hydrocarbons. Concentrations of GRO, DRO, and/or RRO were detected in soil samples collected from AST-1 through AST-3. Higher relative GRO, DRO, and RRO concentrations were observed at a depth of 3 feet bgs compared to depths of 5 and 10 feet bgs. One soil sample (AST-2-3'), collected from the northern side of the ASTs, exceeded MTCA Method A Cleanup Levels. The GRO concentration of 164 milligrams per kilogram (mg/kg) at AST-2-3' exceeds the MTCA Method A Cleanup Level of 100 mg/kg. The other soil samples analyzed for petroleum hydrocarbons were either not detected or detected below MTCA Method A Cleanup Levels. Groundwater sampling attempts were unsuccessful based on the tight soil formation.

Former AST Area. Soil samples from the former AST area were analyzed for total petroleum hydrocarbons. Concentrations of GRO, DRO, and RRO were detected in soil samples collected from both soil borings (SB-5 and SB-6) at depths of 5 and 10 feet bgs. All concentrations were either not detected or below MTCA Method A Cleanup Levels.

Maintenance Shop Area. Soil samples from the maintenance shop area were analyzed for petroleum hydrocarbons, and the soil sample with the highest concentration of total petroleum hydrocarbons was analyzed for PCBs. Concentrations of DRO and RRO were detected in soil samples collected from both borings, Shop-1 and Shop-2. Higher relative DRO and RRO concentrations were observed at a depth of 2.5 feet bgs compared to depths of 5 feet bgs, where significantly lower concentrations were observed. One soil sample (Shop-2-2.5'), collected near the observed surface soil staining on the northern side of the maintenance shop, exceeded MTCA Method A Cleanup Levels. DRO concentrations of 2,720 mg/kg and RRO concentrations of 4,380 mg/kg exceed the MTCA Method A Cleanup Levels of 2,000 mg/kg for both DRO and RRO. All other soil samples analyzed for petroleum hydrocarbons were either not detected or detected below MTCA Method A Cleanup Levels. PCBs were not detected in the soil sample with the highest concentration of total petroleum hydrocarbons.

Suspected Vault and Barn Area. Soil samples from the vault and barn area were analyzed for petroleum hydrocarbons, organochlorine pesticides, organophosphate pesticides, and chlorinated acid herbicides. Concentrations of DRO and RRO were detected in soil samples collected from Vault-1, Vault-2, and Barn-1 at depths of 7 and 15 feet bgs. Concentrations of organochlorine pesticides were detected in the soil sample from the barn area at depths just below the drainage surface. All sample concentrations from the vault and barn area were either not detected or below MTCA Method A Cleanup Levels.

Arsenic Area. One soil sample was collected during the installation of monitoring well MW-1 near the water table at 10 feet bgs and analyzed for arsenic. Concentrations of arsenic were detected in the soil sample above the Puget Sound Natural Background Concentration of 7 mg/kg, but below the MTCA Method A Cleanup level of 20 mg/kg.

Snohomish Marine. Soil samples from Snohomish Marine were analyzed for total petroleum hydrocarbons, VOCs, and Resource Conservation and Recovery Act (RCRA) 8 Metals. Concentrations of GRO, DRO, RRO, VOCs, and metals were detected in soil samples collected from all soil borings (SB-1 through SB-4) from depths ranging between 5 and 15 feet bgs. All concentrations were either not detected or below MTCA Method A Cleanup Levels.

5.2 Groundwater Analysis and Results

Groundwater analytical results are shown in Tables 5 through 6. A groundwater sample was collected from the CSCSL listing area for arsenic from monitoring well MW-1. Two groundwater samples were collected from MW-1, one sample using a 0.45-micron field filter, and one sample without a filter. Concentrations of

arsenic were detected in both groundwater samples above the MTCA Method A Cleanup Level of 5 micrograms/liter (µg/L) at concentrations of 14.7 µg/L (unfiltered) and 20.4 µg/L (filtered) respectively.

At Snohomish Marine, one groundwater sample was collected from soil boring SB-4 to investigate the elevated field screening results encountered near the water table. The groundwater sample was analyzed for total petroleum hydrocarbons and VOCs. Concentrations of DRO, RRO, and benzene were detected above MTCA Method A Cleanup Levels. DRO (15,400 µg/L) and RRO (74,100 µg/L) were detected at concentrations between 30 and 148 times higher than the MTCA Method A Cleanup Level of 500 µg/L for both DRO and RRO, respectively. Benzene (32.2 µg/L) was detected above the MTCA Method A Cleanup Level of 5 µg/L.

5.3 Drainage Sediment Analysis and Results

Drainage sediment analytical results are shown in Tables 7 through 11. Concentrations of PCBs, organochlorine pesticides, organophosphorus pesticides, and herbicides were not detected in drainage sediment samples collected from the northern surface drainage and each outfall location sampled. Petroleum hydrocarbons were detected in samples collected at outfall locations adjacent to Interstate 5 and the northern surface drainage area. Metals (list) were detected in all drainage sediment samples throughout the Site. Concentrations of PCBs were not detected in any drainage sample. Concentrations of herbicides and pesticides were largely not detected in the drainage samples and none exceeded applicable MTCA Method A Cleanup Levels.

Cleanup Screening Levels (CSL) were applied consistent with WAC 173-204 Sediment Cleanup Users Manual (SCUM) and WAC 173-204 Sediment Management Standards. The Cleanup Screening Levels are used to determine if Sites required additional remedial action. When the average of the three highest samples for any single chemical exceeds the cleanup screening levels, cleanup is required. Sediment Cleanup Objectives (SCO) represent long-term cleanup levels used when concentrations are above CSLs (a no-effect concentration). Sediment cleanup levels are often established in between the CSL and SCO.

Detected concentrations of petroleum hydrocarbons, PAHs, and metals in each sample were below CSLs for Freshwater Sediment Management.

6.0 Summary and Conclusions

Phase II ESA field activities were completed between August 29 and September 28, 2022 and consisted of geophysical survey, soil borings for soil and groundwater samples, and sampling the stormwater drainage network. Isolated impacts associated with maintenance or operations were identified at localized areas of the Site. A summary of the results is described below:

Soil. Soil data from the current AST area and staining near the maintenance shop identified concentrations of GRO and RRO above cleanup levels at shallow depths (less than 10 feet deep). The soil data from Snohomish Marine, the former AST area, the suspected vault area, and the historic arsenic area were below applicable MTCA Method A cleanup levels.

Groundwater. Groundwater data from the CSCSL listing area near boat country identified concentrations of arsenic above applicable MTCA Method A Cleanup Levels. The source of the arsenic in groundwater on the Site is likely the result of locally elevated natural background concentrations.

Groundwater data from Snohomish Marine identified high concentrations of DRO, RRO, and benzene above MTCA Method A Cleanup Levels. This groundwater sample was collected at a depth of 10 feet near a former catch-basin. Field screening and soil sampling results at intervals above groundwater did not indicate contamination was present.

Drainage Sediment. Drainage sediment data from the Site's stormwater outfall system identified concentrations of petroleum hydrocarbons, PAHs, and metals at concentrations below Washington Cleanup Screening Levels. All detected concentrations of petroleum hydrocarbons, PAHs, and metals were below applicable MTCA Method A Cleanup Levels. Concentrations of PCBs were not detected in any drainage sample. Concentrations of herbicides and pesticides were largely not detected in the drainage samples and none exceeded applicable MTCA Method A Cleanup Levels.

6.1 Conclusions

Conclusions relative to each investigation area are summarized below.

- Current AST Area. A surface release was identified to the north of the ASTs to depths of approximately 5 feet bgs and is not considered *de minimis*. This has been confirmed a REC, and additional lateral and vertical soil characterization is needed. The data from the Phase II indicates that limited contaminated soil excavation will be required.
- Former AST Area. Petroleum hydrocarbon concentrations detected in soil at the former AST area were below MTCA Method A Cleanup Levels. Field screenings indicated no visual signs of impacted soils, and PID monitoring results were negative during both soil boring explorations. Based on the Phase II results, the former AST Area is not considered a REC.
- Maintenance Shop Area. A surface release was identified on the northern side of the maintenance shop as deep as 5 feet bgs and is not considered *de minimis*. This has been confirmed a REC. Additional lateral and vertical characterization is required and the data supports that limited contaminated soil excavation will be required.
- Suspected Vault and Barn Area. All petroleum hydrocarbon concentrations detected in soil at the suspected vault and barn area were below MTCA Method A Cleanup Levels. Field screening results

indicated no visual signs of impacted soils, and PID monitoring results were negative during both soil boring explorations. Visual observations confirmed the contents of the vault were water. Based on the Phase II results, the suspected Vault and Barn Area is not considered a REC.

- Arsenic Area. While the measured arsenic concentration in MW-1 (19.1 µg/L) is noticeably lower than the historical groundwater sample (50 µg/L in 2004), the concentration exceeds the applicable cleanup level. In three of four soil samples where metals were analyzed (Table 3), concentrations of arsenic exceed the Puget Sound Natural Background Concentration of 7 mg/kg. The arsenic concentrations observed in groundwater from monitoring well MW-1 appear to be caused by natural background concentrations of arsenic in soil at the site. Each of the samples was collected at depth, deeper than the expected range of impact from local atmospheric sources like the former Everett Smelter. Because this is on the CSCSL, the Arsenic Area is considered a REC and will require additional assessment, but the overall effort is expected to be minimal.
- Snohomish Marine. A release has been identified with impacts to groundwater downgradient from the Snohomish Marine area near a stormwater catch-basin. The release has extended to groundwater with DRO and RRO concentrations between 30 and 148 times higher than the applicable MTCA Method A cleanup levels, respectively. Additional soil and groundwater characterization, including monitoring wells, will be required at the Snohomish Marine area. The impacted groundwater in the aera of the Snohomish Marine is considered a REC. Based on the detected concentrations, soil remediation and groundwater monitoring may be required.
- Drainage Sediment Outfall and Slough Area. Petroleum hydrocarbons, PAHs, and metal concentrations were detected in drainage sediment samples at select outfall locations throughout the Site. All petroleum hydrocarbon and PAH detections were below MTCA Method A cleanup levels. All metal detections were below or near Puget Sound Natural Background Concentrations, below Cleanup Screening Levels for Freshwater Sediment Management Standards (Benthic), and below applicable MTCA Method A Cleanup Levels. Impacts to the drainage system that could require cleanup were not identified. The drainage sediment outfall and slough areas are not considered a REC.

7.0 Reliance

Apex understands that 1870 Ross Partners, LLC c/o Alterra Property Group, LLC intends to base significant decisions upon the above-referenced report. The findings, opinions, and conclusions of this Limited Phase II ESA are for the confidential and exclusive use of 1870 Ross Partners, LLC, IOS JV Holdings, LLC, and Alterra Property Group, LLC, together with its participants, affiliates, lenders, successors and assigns. Reliance on this report for any use or by parties other than specifically stated is prohibited without the expressed written consent of Apex, 1870 Ross Partners, LLC, and Alterra Property Group, LLC, and such use is at the sole risk of the user. Notwithstanding the preceding, reliance by authorized parties will be subject to the terms,

conditions and limitations stated in the Limited Phase II ESA report and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

8.0 References

Apex Companies, LLC, 2022. *Phase I Environmental Site Assessment, 1871 Ross Ave, Everett, Washington*. July, 12, 2022.

Dagmars Marina LLC, 2021. *Stormwater Pollution Prevention Plan.* September 7, 2021.

Department of Ecology, 2009. *Early Notice Letter Site #8070274 Dagmars Marina.* February 2, 2009.

Table 1 - Soil Results: TPH
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID	Depth (feet bgs)	Date	*Total Petroleum Hydrocarbons (TPH) by NWTPH*		
			Gasoline Range Organics	Diesel Range Organics	Residual Range Organics
			Concentrations in mg/kg		
MTCA Method A Cleanup Level			30/100 [7]	2,000	2,000
SB-01 (9.5-10)	9.5-10	09/28/2022	<1.62	2.68 J	11.6 J
SB-01 (14.5-15)	14.5-15	09/28/2022	5.97	<1.66	4.83 J
SB-02 (4.5-5)	4.5-5	09/28/2022	25.3	25.1	144
SB-02 (14.5-15)	14.5-15	09/28/2022	<1.44	2.50 J	11.5 J
SB-03 (4.5-5)	4.5-5	09/28/2022	<1.60	10.3	58.4
SB-03 (13-13.5)	13-13.5	09/28/2022	<1.96	4.57 J	49.4
SB-04 (4.5-5)	4.5-5	09/28/2022	<1.47	<1.82	11.7 J
SB-04 (9.5-10)	9.5-10	09/28/2022	<2.50	<2.41	8.73 J
SB-04 (13-14)	13-14	09/28/2022	<2.34	4.20 J	46.4
SB-05 (4.5-5)	4.5-5	09/28/2022	1.33 J	<1.60	4.94 J
SB-05 (9-10)	9-10	09/28/2022	<1.99	<2.21	17.1
SB-06 (4.5-5)	4.5-5	09/28/2022	3.72 J	5.95	19.8
SB-06 (9-10)	9-10	09/28/2022	<1.96	<2.20	<5.51
SHOP-1-2.5'	2.5	09/15/2022	--	3.56 J	8.49 J
SHOP-1-5'	5	09/15/2022	--	2.26 J	<5.23
SHOP-2-2.5'	2.5	09/15/2022	--	2,720 J	4,380 J
SHOP-2-5'	5	09/15/2022	--	2.41 J	<5.03
AST-1-5'	5	09/15/2022	<1.72	6.73	18.9
AST-1-10'	10	09/15/2022	<1.66	3.57 J	23.9
AST-2-3'	3	09/15/2022	163	173	109
AST-2-10'	10	09/15/2022	6.83	5.34 J	17.9
AST-3-5'	5	09/15/2022	<1.64	5.43 J	17.2
AST-3-10'	10	09/15/2022	<2.79	5.51 J	35.7
BARN-1-3.5'	3.5	09/15/2022	--	7.39 J	51.4
VAULT-1-7'	7	09/15/2022	--	5.03 J	60.6
VAULT-1-15'	15	09/15/2022	--	2.82 J	16.9
VAULT-2-7'	7	09/15/2022	--	3.57 J	20.9
VAULT-2-15'	15	09/15/2022	--	2.79 J	35.6

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A soil cleanup level for unrestricted land use.
5. Soil cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. The MTCA Method A Cleanup Level for TPH as gasoline range organics is 30 mg/kg/ when benzene is detected, and 100 mg/kg when benzene is not detected.
8. bgs = Below ground surface.
9. J = Result is estimated.

Table 2 - Soil Results: VOCs
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Boring ID:	SB-04			MTCA Method A Cleanup Level
Sample Location ID:	SB-04 (4.5-5)	SB-04 (9.5-10)	SB-04 (13-14)	
Sample Depth (feet bgs):	4.5-5	9.5-10	13-14	
Date:	9/28/2022	9/28/2022	9/28/2022	
Volatile Organic Compounds (VOCs) by EPA Method 8260D in mg/kg				
Acetone	<0.0632	<0.108	<0.101	--
Acrylonitrile	<0.00625	<0.0107	<0.00998	--
Benzene	<0.000809	<0.00138	<0.00129	0.03
Bromobenzene	<0.00156	<0.00265	<0.00249	--
Bromodichloromethane	<0.00126	<0.00214	<0.00200	--
Bromoform	<0.00203	<0.00345	<0.00323	--
Bromomethane	<0.00341 UJ	<0.00580 UJ	<0.00545 UJ	--
n-Butylbenzene	<0.00909	<0.0155	<0.0145	--
sec-Butylbenzene	<0.00499	<0.00850	<0.00796	--
tert-Butylbenzene	<0.00338	<0.00575	<0.00539	--
Carbon Tetrachloride	<0.00156	<0.00265	<0.00248	--
Chlorobenzene	<0.000364	<0.000620	<0.000580	--
Chlorodibromomethane	<0.00106	<0.00181	<0.00169	--
Chloroethane	<0.00294	<0.00503	<0.00470	--
Chloroform	<0.00178	<0.00305	<0.00285	--
Chloromethane	<0.00753 UJ	<0.0128 UJ	<0.0120 UJ	--
2-Chlorotoluene	<0.00150	<0.00255	<0.00239	--
4-Chlorotoluene	<0.000779	<0.00133	<0.00124	--
1,2-Dibromo-3-Chloropropane	<0.00675	<0.0115	<0.0108	--
1,2-Dibromoethane	<0.00112	<0.00191	<0.00179	0.005
Dibromomethane	<0.00130	<0.00221	<0.00207	--
1,2-Dichlorobenzene	<0.000736	<0.00126	<0.00117	--
1,3-Dichlorobenzene	<0.00104	<0.00177	<0.00166	--
1,4-Dichlorobenzene	<0.00121	<0.00207	<0.00193	--
Dichlorodifluoromethane	<0.00279 UJ	<0.00475 UJ	<0.00445 UJ	--
1,1-Dichloroethane	<0.000850	<0.00145	<0.00136	--
1,2-Dichloroethane	<0.00112	<0.00192	<0.00179	--
1,1-Dichloroethene	<0.00105	<0.00179	<0.00168	--
cis-1,2-Dichloroethene	<0.00127	<0.00217	<0.00203	--
trans-1,2-Dichloroethene	<0.00180	<0.00308	<0.00287	--
1,2-Dichloropropane	<0.00246	<0.00420	<0.00393	--
1,1-Dichloropropene	<0.00140	<0.00239	<0.00224	--
1,3-Dichloropropane	<0.000868	<0.00148	<0.00138	--
cis-1,3-Dichloropropene	<0.00131	<0.00223	<0.00209	--
trans-1,3-Dichloropropene	<0.00197	<0.00338	<0.00315	--
2,2-Dichloropropane	<0.00239	<0.00408	<0.00381	--
Di-Isopropyl Ether	<0.000710	<0.00121	<0.00113	--
Ethylbenzene	<0.00128	<0.00218	<0.00204	6

Please see notes at end of table.

Table 2 - Soil Results: VOCs
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Boring ID:	SB-04			MTCA Method A Cleanup Level
Sample Location ID:	SB-04 (4.5-5)	SB-04 (9.5-10)	SB-04 (13-14)	
Sample Depth (feet bgs):	4.5-5	9.5-10	13-14	
Date:	9/28/2022	9/28/2022	9/28/2022	
Hexachloro-1,3-Butadiene	<0.0104	<0.0177	<0.0166	--
Isopropylbenzene	<0.000736	<0.00126	<0.00117	--
p-Isopropyltoluene	<0.00442	<0.00753	<0.00705	--
2-Butanone (MEK)	<0.110	<0.187	<0.176	--
Methylene Chloride	<0.0115	0.104	0.0777	0.02
4-Methyl-2-Pentanone (MIBK)	<0.00395	<0.00673	<0.00630	--
Methyl tert-Butyl Ether	<0.000606	<0.00103	<0.000967	0.1
Naphthalene	<0.00845	<0.0144	<0.0135	5
n-Propylbenzene	<0.00165	<0.00280	<0.00263	--
Styrene	0.00303 J+	<0.000675	<0.000633	--
1,1,1,2-Tetrachloroethane	<0.00164	<0.00280	<0.00262	--
1,1,2,2-Tetrachloroethane	<0.00120	<0.00205	<0.00192	--
1,1,2-Trichlorotrifluoroethane	<0.00131	<0.00223	<0.00208	--
Tetrachloroethene	<0.00155	<0.00265	<0.00248	0.05
Toluene	0.00234 J	0.0445	0.00918 J	7
1,2,3-Trichlorobenzene	<0.0127	<0.0216	<0.0203	--
1,2,4-Trichlorobenzene	<0.00762	<0.0130	<0.0122	--
1,1,1-Trichloroethane	<0.00160	<0.00273	<0.00255	2
1,1,2-Trichloroethane	<0.00103	<0.00176	<0.00165	--
Trichloroethene	<0.00101	<0.00172	<0.00161	0.03
Trichlorofluoromethane	<0.00143	<0.00244	<0.00229	--
1,2,3-Trichloropropane	<0.00281	<0.00478	<0.00448	--
1,2,4-Trimethylbenzene	<0.00274	<0.00465	<0.00437	--
1,2,3-Trimethylbenzene	<0.00274	<0.00465	<0.00437	--
1,3,5-Trimethylbenzene	<0.00346	<0.00590	<0.00553	--
Vinyl Chloride	<0.00201	<0.00343	<0.00321	--
Xylenes, Total	<0.00152	<0.00260	<0.00243	9

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A soil cleanup level for unrestricted land use.
5. Soil cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. bgs = Below ground surface.
8. J = Result is estimated.
9. J+ = Result is estimated and may be biased high.
10. UJ = The not detected result is estimated.

Table 3 - Soil Results: Metals
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Boring ID:	SB-01		SB-04	MW-1	Puget Sound Natural Background Concentrations	MTCA Method A Cleanup Level
Sample Location ID:	SB-01 (9.5-10)	SB-01 (14.5-15)	SB-04 (9.5-10)	MW-1-10'		
Sample Depth (feet bgs):	9.5-10	14.5-15	9.5-10	10		
Date:	9/28/2022	9/28/2022	9/28/2022	9/15/2022		
Metals by EPA Method 6020B and 7471B in mg/kg						
Arsenic	14.6	5.26	11.2	19.1	7	20
Barium	54.0	31.5	60.0	46.0	--	--
Cadmium	0.218 J	<0.107	<0.155	0.169 J	1	2
Chromium	52.7	22.6	72.9	33.4	48	2000
Copper	49.8	15.3	35.9	26.8	36	--
Lead	9.71	3.58	8.27	12.9	24	250
Nickel	49.6	24.7	54.1	28.4	48	--
Selenium	0.490 J	<0.225	0.656 J	<0.310	--	--
Silver	<0.125	<0.108	<0.157	<0.149	--	--
Zinc	69.5	37.4	75.0	85.7	85	--
Mercury	0.0623 J	<0.0225	0.0546 J	0.0333 J	0.07	2

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A soil cleanup level for unrestricted land use and the natural background soil concentrations.
5. Soil cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. bgs = Below ground surface.
8. J = Result is estimated.

Table 4 - Soil Results: PCBs
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Boring ID:	SHOP-2	MTCA Method A Cleanup Level
Sample Location ID:	SHOP-2-2.5'	
Sample Depth (feet bgs):	2.5	
Date:	9/15/2022	
Polychlorinated Biphenyls (PCBs) by EPA Method 8082A in mg/kg		
Aroclor 1016	<0.0143	--
Aroclor 1221	<0.0143	--
Aroclor 1232	<0.0143	--
Aroclor 1242	<0.0143	--
Aroclor 1248	<0.00893	--
Aroclor 1254	<0.00893	--
Aroclor 1260	<0.00893	--
Total PCBs	<0.0143	1

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A soil cleanup
5. Soil cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. bgs = Below ground surface.

Table 5 - Grab Groundwater Results
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	GW4	MTCA Method A Cleanup Level
Date:	9/28/2022	
Total Petroleum Hydrocarbons (TPH) by NWTPH-Gx in µg/L		
Gasoline Range Organics	180	800/1000 [7]
Diesel Range Organics	15,400 J	500
Residual Range Organics	74,100 J	500
Volatile Organic Compounds (VOCs) by EPA Method 8260D in µg/L		
Acetone	114	--
Acrylonitrile	<0.0760	--
Benzene	32.3	5
Bromobenzene	<0.0420	--
Bromodichloromethane	0.194	--
Bromoform	<0.239	--
Bromomethane	<0.148	--
n-Butylbenzene	<0.153	--
sec-Butylbenzene	<0.101	--
tert-Butylbenzene	<0.0620	--
Carbon Tetrachloride	<0.0432	--
Chlorobenzene	<0.0229	--
Chlorodibromomethane	<0.0180	--
Chloroethane	<0.0432	--
Chloroform	2.54	--
Chloromethane	<0.0556 UJ	--
2-Chlorotoluene	<0.0368	--
4-Chlorotoluene	<0.0452	--
1,2-Dibromo-3-Chloropropane	<0.204 UJ	--
1,2-Dibromoethane	<0.0210	0.01
Dibromomethane	<0.0400	--
1,2-Dichlorobenzene	<0.0580	--
1,3-Dichlorobenzene	<0.0680	--
1,4-Dichlorobenzene	<0.0788	--
Dichlorodifluoromethane	<0.0327	--
1,1-Dichloroethane	<0.0230	--
1,2-Dichloroethane	<0.0190	5
1,1-Dichloroethene	<0.0200	--
cis-1,2-Dichloroethene	<0.0276	--
trans-1,2-Dichloroethene	<0.0572	--
1,2-Dichloropropane	<0.0508	--
1,1-Dichloropropene	<0.0280	--
1,3-Dichloropropane	<0.0700	--
cis-1,3-Dichloropropene	<0.0271	--
trans-1,3-Dichloropropene	<0.0612	--
2,2-Dichloropropane	<0.0317	--
Di-Isopropyl Ether	<0.0140	--
Ethylbenzene	3.44	700
Hexachloro-1,3-Butadiene	<0.508	--
Isopropylbenzene	0.118	--
p-Isopropyltoluene	0.250	--
2-Butanone (MEK)	10.8	--
Methylene Chloride	<0.265	5

Please see notes at end of table.

Table 5 - Grab Groundwater Results
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	GW4	MTCA Method A Cleanup Level
Date:	9/28/2022	
4-Methyl-2-Pentanone (MIBK)	<0.400	--
Methyl tert-Butyl Ether	<0.0118	20
Naphthalene	13.8	160
n-Propylbenzene	0.279	--
Styrene	2.10	--
1,1,1,2-Tetrachloroethane	<0.0200	--
1,1,2,2-Tetrachloroethane	<0.0156	--
1,1,2-Trichlorotrifluoroethane	<0.0270	--
Tetrachloroethene	<0.0280	5
Toluene	37.2	1000
1,2,3-Trichlorobenzene	<0.0250	--
1,2,4-Trichlorobenzene	<0.193	--
1,1,1-Trichloroethane	<0.0110 UJ	200
1,1,2-Trichloroethane	<0.0353	--
Trichloroethene	<0.0160	5
Trichlorofluoromethane	<0.0200	--
1,2,3-Trichloropropane	<0.204 UJ	--
1,2,4-Trimethylbenzene	4.17	--
1,2,3-Trimethylbenzene	5.22	--
1,3,5-Trimethylbenzene	0.962	--
Vinyl Chloride	<0.0273	0.2
Xylenes, Total	22.8	1000
Bromochloromethane	<0.0452	--
Carbon Disulfide	0.435 J	--
trans-1,4-Dichloro-2-Butene	<0.0560	--
2-Hexanone	<0.400	--
n-Hexane	<0.0424	--
Iodomethane	<0.242 UJ	--
Vinyl Acetate	<0.141	--

Notes:

1. µg/L = Micrograms per liter.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A groundwater cleanup level.
5. Groundwater cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. The MTCA Method A Cleanup Level for TPH as gasoline range organics is 800 µg/L when benzene is detected, and 1,000 µg/L when benzene is not detected.
8. J = Result is estimated.
9. UJ = The not detected result is estimated.

Table 6 - Groundwater Results: Arsenic
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	MW-1-UF	MW-1-F	MTCA Method A
Date:	10/6/2022	10/6/2022	Cleanup Level
Metals by EPA Method 6020B in µg/L			
Arsenic	14.7	20.4	5

Notes:

1. µg/L = Micrograms per liter.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method A groundwater cleanup level.
5. Groundwater cleanup levels from the MTCA Method A 173-340 WAC (July 2022 update).

Table 7 - Drainage Sediment Results: TPH, PCBs, and PAHs
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	OUTFALL-1	OUTFALL-2	OUTFALL-3	OUTFALL-4	OUTFALL-5	OUTFALL-6	OUTFALL-7	OUTFALL-8	OUTFALL-9	OUTFALL-11	OUTFALL-12	OUTFALL-13	SLOUGH-1	SLOUGH-2	SLOUGH-3	SLOUGH-4	Freshwater Sediment Management Standards (Benthic)	
Date:	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/27/2022	09/27/2022	09/27/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	Cleanup Screening Level	Sediment Cleanup Objective
Total Petroleum Hydrocarbons (TPH) by NWTPH in mg/kg																		
Diesel Range Organics	<2.62	<2.41	<3.04	<3.09	<2.36	5.79	16.9	16.5	21.7	<1.97	<2.04	12.5	7.79 J	8.31 J	7.64 J	6.37 J	510	340
Residual Range Organics	12.0 J	<6.03	<7.61	19.9 J	<5.92	16.7	125	105	95.8	<4.92	<5.11	82.0	20.7 J	24.7 J	25.9	21.1 J	4,400	3,600
Polychlorinated Biphenyls (PCBs) by EPA Method 8082A in mg/kg																		
Aroclor 1016	<0.0233	<0.0214	<0.0270	<0.0274	<0.0210	<0.0160	<0.0121	<0.0170	<0.0173	<0.0174	<0.0181	<0.0329	<0.0270	<0.0299	<0.0288	<0.0271	--	--
Aroclor 1221	<0.0233	<0.0214	<0.0270	<0.0274	<0.0210	<0.0160	<0.0121	<0.0170	<0.0173	<0.0174	<0.0181	<0.0329	<0.0270	<0.0299	<0.0288	<0.0271	--	--
Aroclor 1232	<0.0233	<0.0214	<0.0270	<0.0274	<0.0210	<0.0160	<0.0121	<0.0170	<0.0173	<0.0174	<0.0181	<0.0329	<0.0270	<0.0299	<0.0288	<0.0271	--	--
Aroclor 1242	<0.0233	<0.0214	<0.0270	<0.0274	<0.0210	<0.0160	<0.0121	<0.0170	<0.0173	<0.0174	<0.0181	<0.0329	<0.0270	<0.0299	<0.0288	<0.0271	--	--
Aroclor 1248	<0.0146	<0.0134	<0.0169	<0.0172	<0.0131	<0.0100	<0.00757	<0.0107	<0.0108	<0.0109	<0.0113	<0.0206	<0.0169	<0.0187	<0.0180	<0.0170	--	--
Aroclor 1254	<0.0146	<0.0134	<0.0169	<0.0172	<0.0131	<0.0100	<0.00757	<0.0107	<0.0108	<0.0109	<0.0113	<0.0206	<0.0169	<0.0187	<0.0180	<0.0170	--	--
Aroclor 1260	<0.0146	<0.0134	<0.0169	<0.0172	<0.0131	<0.0100	<0.00757	<0.0107	<0.0108	<0.0109	<0.0113	<0.0206	<0.0169	<0.0187	<0.0180	<0.0170	--	--
Total PCBs	<0.0233	<0.0214	<0.0270	<0.0274	<0.0210	<0.0160	<0.0121	<0.0170	<0.0173	<0.0174	<0.0181	<0.0329	<0.0270	<0.0299	<0.0288	<0.0271	2.5	0.11
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM in mg/kg																		
Anthracene	<0.00454	<0.00416	<0.00526	<0.00535	<0.00409	<0.00312	<0.00236	<0.00332	0.00495 J	<0.00340	<0.00353	<0.00642	<0.00527	<0.00582	<0.00562	<0.00529	--	--
Acenaphthene	<0.00412	<0.00378	<0.00478	<0.00486	<0.00372	<0.00284	<0.00215	<0.00302	0.0141	<0.00309	<0.00321	<0.00583	<0.00479	<0.00529	<0.00510	<0.00480	--	--
Acenaphthylene	<0.00426	<0.00391	<0.00494	<0.00502	<0.00384	<0.00293	<0.00222	<0.00312	0.0219	<0.00319	<0.00332	<0.00603	<0.00495	<0.00547	<0.00527	<0.00496	--	--
Benzo(a)anthracene	<0.00341	<0.00313	<0.00396	<0.00402	<0.00308	<0.00235	0.00262 J	<0.00250	0.0133	<0.00256	<0.00266	<0.00483	<0.00397	<0.00438	<0.00422	<0.00398	--	--
Benzo(a)pyrene	<0.00353	<0.00324	<0.00409	<0.00416	<0.00318	<0.00243	0.00341 J	<0.00259	0.0236	<0.00265	<0.00275	<0.00499	<0.00410	<0.00453	<0.00437	0.00430 J	--	--
Benzo(b)fluoranthene	<0.00302	<0.00277	<0.00350	<0.00356	<0.00272	<0.00208	0.0057 J	0.00615 J	0.0335	<0.00226	<0.00235	<0.00427	<0.00351	<0.00387	<0.00374	<0.00352	--	--
Benzo(g,h,i)perylene	<0.00349	<0.00320	<0.00405	<0.00412	<0.00315	<0.00240	0.00413 J	0.00422 J	0.0349	<0.00262	<0.00272	<0.00494	<0.00406	<0.00448	<0.00432	<0.00407	--	--
Benzo(k)fluoranthene	<0.00424	<0.00389	<0.00492	<0.00500	<0.00382	<0.00292	<0.00221	<0.00311	0.00666 J	<0.00318	<0.00330	<0.00600	<0.00493	<0.00544	<0.00525	<0.00494	--	--
Chrysene	<0.00458	<0.00420	<0.00530	<0.00540	<0.00412	<0.00315	0.00335 J	0.00404 J	0.0175	<0.00343	<0.00356	<0.00647	<0.00532	<0.00588	<0.00566	<0.00533	--	--
Dibenz(a,h)anthracene	<0.00339	<0.00311	<0.00393	<0.00400	<0.00306	<0.00233	<0.00177	<0.00248	0.0091	<0.00254	<0.00264	<0.00480	<0.00394	<0.00436	<0.00420	<0.00395	--	--
Fluoranthene	<0.00448	<0.00411	<0.00519	<0.00528	<0.00404	<0.00308	0.00604 J	0.0126	0.0338	<0.00336	<0.00349	<0.00633	<0.00520	<0.00575	<0.00554	0.00747 J	--	--
Fluorene	<0.00404	<0.00371	<0.00469	<0.00477	<0.00364	<0.00278	<0.00210	<0.00296	0.0188	<0.00303	<0.00315	<0.00572	<0.00470	<0.00519	<0.00501	<0.00471	--	--
Indeno(1,2,3-cd)pyrene	<0.00357	<0.00328	<0.00414	<0.00421	<0.00322	<0.00246	0.0032 J	0.00371 J	0.0157	<0.00268	<0.00278	<0.00505	<0.00415	<0.00458	<0.00442	<0.00416	--	--
Naphthalene	<0.00805	<0.00738	<0.00933	<0.00949	<0.00725	<0.00553	<0.00419	0.0108 J	0.0358 J+	<0.00603	<0.00627	<0.0114	0.0201 J	0.0135 J	0.0184 J	0.0138 J	--	--
Phenanthrene	<0.00456	<0.00418	<0.00528	<0.00537	<0.00411	<0.00313	0.00301 J	0.0127	0.0213 J+	<0.00341	<0.00355	<0.00644	0.00568 J	<0.00585	<0.00564	0.00692 J	--	--
Pyrene	<0.00395	<0.00362	<0.00457	<0.00465	<0.00356	<0.00271	0.00569 J	0.00628 J	0.0401	<0.00296	<0.00307	<0.00558	0.00477 J	<0.00506	<0.00488	0.00802 J	--	--
1-Methylnaphthalene	<0.00886	<0.00812	<0.0103	<0.0104	<0.00798	<0.00609	<0.00461	<0.00648	0.0348	<0.00664	<0.00690	<0.0125	<0.0103	<0.0114	<0.0110	<0.0103	--	--
2-Methylnaphthalene	<0.00842	<0.00773	<0.00976	<0.00993	<0.00759	<0.00579	<0.00438	<0.00617	<0.00627	<0.00631	<0.00656	<0.0119	<0.00979	<0.0108	<0.0104	<0.00981	--	--
2-Chloronaphthalene	<0.00919	<0.00843	<0.0107	<0.0108	<0.00828	<0.00632	<0.00478	<0.00673	<0.00684	<0.00689	<0.00716	<0.0130	<0.0107	<0.0118	<0.0114	<0.0107	--	--
Total PAHs	<0.00886	<0.00812	<0.0103	<0.0104	<0.00798	<0.00609	0.0372 J	0.0605	0.345	<0.00664	<0.00690	<0.0125	0.0306 J	0.0135 J	0.0184 J	0.0330 J	30	17

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Cleanup Screening Level.
5. Sediment Management Standards from WAC 173-204 and Washington Ecology's *Sediment Cleanup User's Manual* (December 2019 update).
6. -- = Value not available.
7. J = Result is estimated.
8. J+ = Result is estimated and may be biased high.

Table 8 - Drainage Sediment Results: Metals
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	OUTFALL-1	OUTFALL-2	OUTFALL-3	OUTFALL-4	OUTFALL-5	OUTFALL-6	OUTFALL-7	OUTFALL-8	OUTFALL-9	OUTFALL-11	OUTFALL-12	OUTFALL-13	SLOUGH-1	SLOUGH-2	SLOUGH-3	SLOUGH-4	Puget Sound Natural Background Concentrations	Freshwater Sediment Management Standards (Benthic)	
Date:	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/27/2022	09/27/2022	09/27/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022	09/14/2022		Cleanup Screening Level	Sediment Cleanup Objective
Metals by EPA Method 6020B and 7471B in mg/kg																			
Arsenic	10.6	18.1	11.5	21.6	13.2	13.7	5.94	18.0	18.8	6.06	12.7	13.6	21.7	22.9	19.5	15.9	11	120	14
Barium	35.0	54.1	66.5	51.5	52.3	57.3	32.3	61.5	41.0	15.3	32.0	37.7	51.4	54.9	45.3	49.6	--	--	--
Cadmium	<0.169	<0.155	0.254 J	<0.199	<0.152	0.120 J	0.129 J	0.208 J	0.232 J	<0.126	<0.131	<0.238	0.307 J	0.334 J	0.322 J	0.358	0.8	5.4	2.1
Chromium	47.8	68.3	78.4	65.3	55.8	57.9	23.0	64.6	26.8	17.2	42.5	44.4	43.3	48.0	39.3	53.7	62	88	72
Copper	41.1	49.4	60.9	49.9	47.6	36.2	17.6	41.2	38.2	16.8	39.6	39.5	73.4	81.4	66.9	74.6	45	1200	400
Lead	6.41	8.28	9.44	7.57	7.03	10.4	27.6	22.6	8.98	2.62 J	6.58	10.2	20.0	22.0	20.3	21.5	21	>1,300	360
Nickel	45.5	62.5	65.2	60.3	49.8	40.0	23.9	42.4	31.4	17.8	40.7	38.4	48.4	56.2	47.6	58.5	50	110	26
Selenium	0.479 J	0.953 J	0.872 J	0.619 J	0.613 J	0.570 J	<0.185	0.831 J	0.304 J	<0.266	0.626 J	0.732 J	0.780 J	0.932 J	0.710 J	0.686	--	>20	11
Silver	<0.171	<0.157	<0.198	<0.201	<0.154	<0.117	<0.0888	<0.125	<0.127	<0.128	<0.133	<0.241	0.213 J	0.244 J	<0.211	0.220	0.24	1.7	0.57
Zinc	61.6	84.8	91.1	75.3	74.7	85.1	181	74.2	95.0	24.1 J	57.9	68.1 J	86.7	102	90.8	108	93	>4,200	3200
Mercury	0.0664 J	<0.0326	<0.0412	0.0740 J	0.130	0.0693	0.0189 J	0.0859	<0.0264	0.0809	0.0361 J	0.0592 J	0.154	0.132	0.123	0.119	0.2	0.8	0.66

Notes:

1. mg/kg = Milligrams per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Cleanup Screening Level and the natural background concentration.
5. Natural Background Concentrations and Sediment Management Standards from WAC 173-204 and Washington Ecology's *Sediment Cleanup User's Manual* (December 2019 update).
6. -- = Value not available.
7. J = Result is estimated.
8. J+ = Result is estimated and may be biased high.

Table 9 - Drainage Sediment Results: Organochlorine Pesticides
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	Slough 1-4	Barn 2	Outfall 8	Freshwater Sediment Management Standards (Benthic)		MTCA Method B Cleanup Level
Date:	9/14/2022	10/6/2022	10/6/2022	Cleanup Screening Level	Sediment Cleanup Objective	
Organochlorine Pesticides by EPA Method 8081B in µg/kg						
Aldrin	<4.79	<2.58	<2.66 UJ	--	--	59
alpha-BHC	<4.79	<2.58	<2.66	--	--	160
beta-BHC	<10.3	<2.58	<2.66 UJ	11	7.2	560
delta-BHC	<5.99	<2.58	<2.66	--	--	--
gamma-BHC (Lindane)	<4.79	<2.58	<2.66 UJ	--	--	910
cis-Chlordane	<4.79	<2.58	<2.66	--	--	40,000
trans-Chlordane	<4.79	<2.58	<2.66	--	--	40,000
4,4'-DDD	<4.79	<2.84	<2.66	860	310	2,400
4,4'-DDE	<4.79	4.83	<2.66	33	21	2,900
4,4'-DDT	<4.79	4.38 J	<2.66	8,100	100	2,900
Dieldrin	<4.79	<2.58	<2.66	9.3	4.9	63
Endosulfan I	<4.79	<2.58	<2.66	--	--	--
Endosulfan II	<4.79	<2.58	<2.66	--	--	--
Endosulfan sulfate	<4.79	<2.58	<2.66 UJ	--	--	480,000
Endrin	<4.79	<2.58	<2.66	--	--	24,000
Endrin Aldehyde	<4.79	<2.58	<2.66	--	--	--
Endrin ketone	<4.79	<2.58	<2.66	>8.5	8.50	--
Heptachlor	<4.79	<2.58	<2.66 UJ	--	--	220
Heptachlor epoxide	<4.79	<2.58	<2.66	--	--	110
Methoxychlor	<14.4	<7.75	<7.97	--	--	400,000
Chlordane (Technical)	<144	<77.5	<79.7	--	--	2,900
Toxaphene (Total)	<144	<77.5	<79.7	--	--	910

Notes:

1. µg/kg = Micrograms per kilogram.
2. Bold values indicate the compound was detected above minimum reporting limits.
3. < = Analyte was not detected above the reporting limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method B soil cleanup level or the freshwater sediment Cleanup Screening Level.
5. Soil cleanup levels from the MTCA Method B 173-340 WAC (July 2022 update).
6. Sediment Management Standards from WAC 173-204 and Washington Ecology's *Sediment Cleanup User's Manual* (December 2019 update).
7. -- = Value not available.
8. J = Result is estimated.
9. UJ = The not detected result is estimated.

Table 10 - Drainage Sediment Results: Organophosphorus Pesticides
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	Slough 1-4	Barn 2	Outfall 8	MTCA Method B
Date:	9/14/2022	10/6/2022	10/6/2022	Cleanup Level
Organophosphorus Pesticides by EPA Method 8270E in µg/kg				
Azinphos methyl (Guthion)	<1180	<66.2	<63.5	--
Chlorpyrifos	<118	<66.2	<63.5	80,000
Coumaphos	<118	<66.2	<137	--
Demeton O	<118	<66.2	<63.5 UJ	--
Demeton S	<118	<66.2	<63.5	--
Diazinon	<118	<66.2	<63.5	56,000
Dichlorvos	<118	<66.2	<63.5	3,400
Dimethoate	<118	<66.2	<63.5	180,000
Disulfoton	<118	<66.2	<63.5	3,200
EPN	<118	<66.2	<63.5	800
Ethoprop	<118	<66.2	<63.5	--
Fensulfothion	<118	<66.2	<63.5	--
Fenthion	<118	<66.2	<63.5	--
Malathion	<118	<66.2	<63.5	1,600,000
Merphos	<175	<176	<268	2,400
Methyl parathion	<118	<66.2	<76.2	20,000
Mevinphos (Phosdrin)	<118	<66.2	<63.5	--
Monocrotophos	<118	<66.2	<63.5	--
Naled (Dibrom)	<118	<66.2	<63.5 UJ	160,000
Parathion, ethyl	<187	<66.2	<63.5	480,000
Phorate	<118	<66.2	<63.5	16,000
Ronnel (Fenchlorphos)	<118	<66.2	<63.5	4,000,000
Sulfotep	<118	<66.2	<63.5	40,000
Sulprofos (Bolstar)	<118	<66.2	<63.5	--
TEPP	<473	<265	<254	--
Tetrachlorvinphos (Rabon)	<118	<66.2	<63.5	42,000
Tokuthion (Prothiofos)	<118	<66.2	<63.5	--
Trichloronate	<118	<66.2	<63.5	--

Notes:

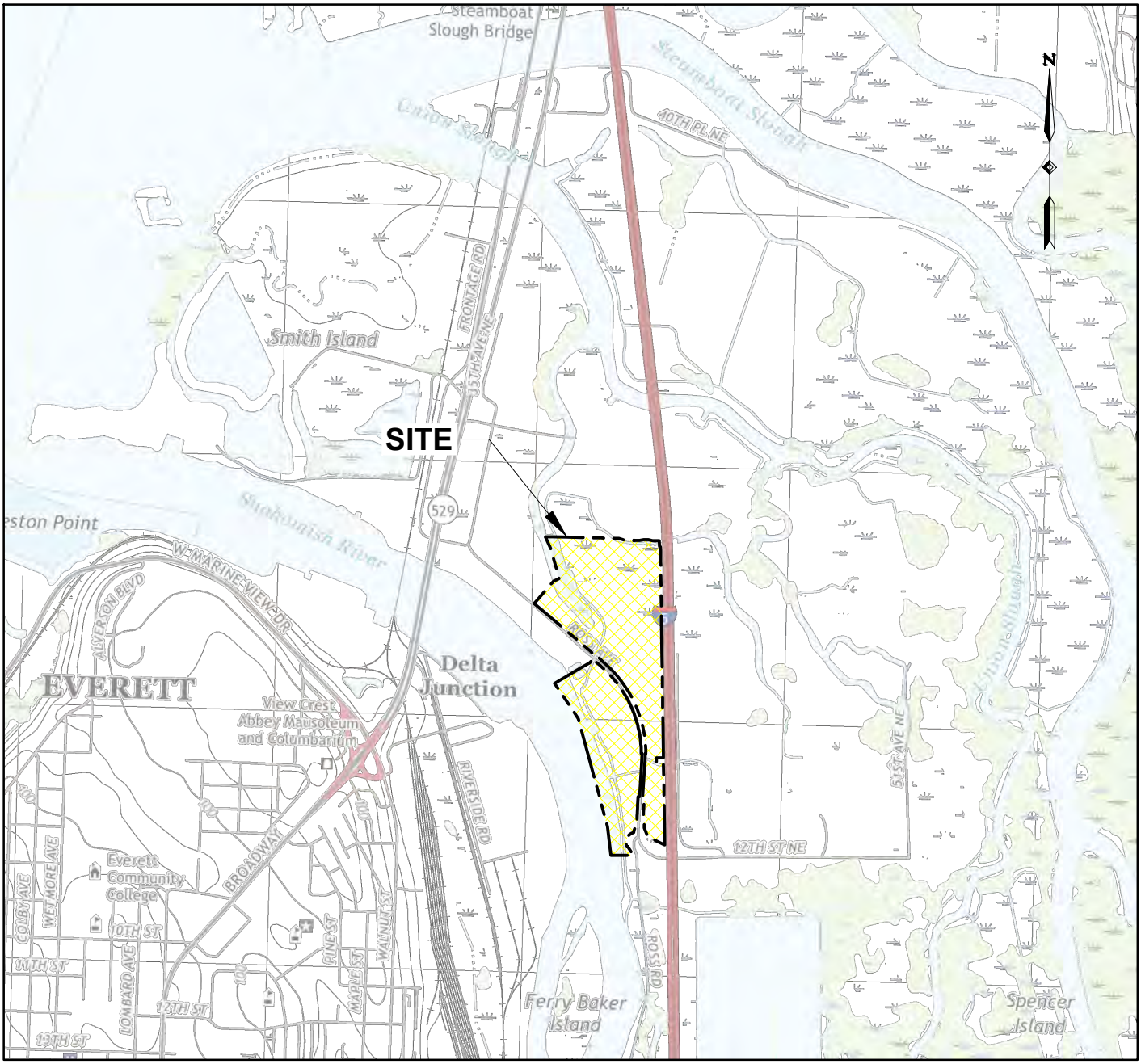
1. µg/kg = Micrograms per kilogram.
2. Bold values indicate the compound was detected above minimum reporting limits.
3. < = Analyte was not detected above the reporting limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method B soil cleanup level.
5. Soil cleanup levels from the MTCA Method B 173-340 WAC (July 2022 update).
6. -- = Value not available.
7. UJ = The not detected result is estimated.

Table 11 - Drainage Sediment Results: Herbicides
Dagmar Marina Facility - 1871 Ross Avenue
Everett, Washington

Sample Location ID:	Slough 1-4	Barn 2	Outfall 8	MTCA Method B
Date:	9/14/2022	10/6/2022	10/6/2022	Cleanup Level
Herbicides by EPA Method 8151A in µg/kg				
2,4,5-T	<20	<4.7	<5.3	800,000
2,4,5-TP (Silvex)	<40	<9.6	<11	640,000
2,4-D	<260	<62	<69	800,000
2,4-DB	<540	<130	<140	--
Dicamba	<25	<6.0	<6.7	2,400,000
Dichlorprop	<260	<63	<70	--
Dinoseb	<320	<75	<84	80,000
MCPA	<26000	<6200	<6900	40,000
Dalapon	<390	<93	<100	2,400,000
MCPP	<35000	<8400	<9400	80,000

Notes:

1. µg/kg = Micrograms per kilogram.
2. Bold values indicate the compound was detected above method detection limits.
3. < = Analyte was not detected above the detection limit shown.
4. Shaded results exceed the Model Toxics Control Act (MTCA) Method B soil cleanup level.
5. Soil cleanup levels from the MTCA Method B 173-340 WAC (July 2022 update).
6. -- = Value not available.



Marysville, Washington

United States Geological Survey
7.5 Minute Series Topographic Map
Contour Interval: 20 feet
Scale: 1 inch = 24,000 feet
Date: 2020

0 2,000 4,000
Scale in Feet

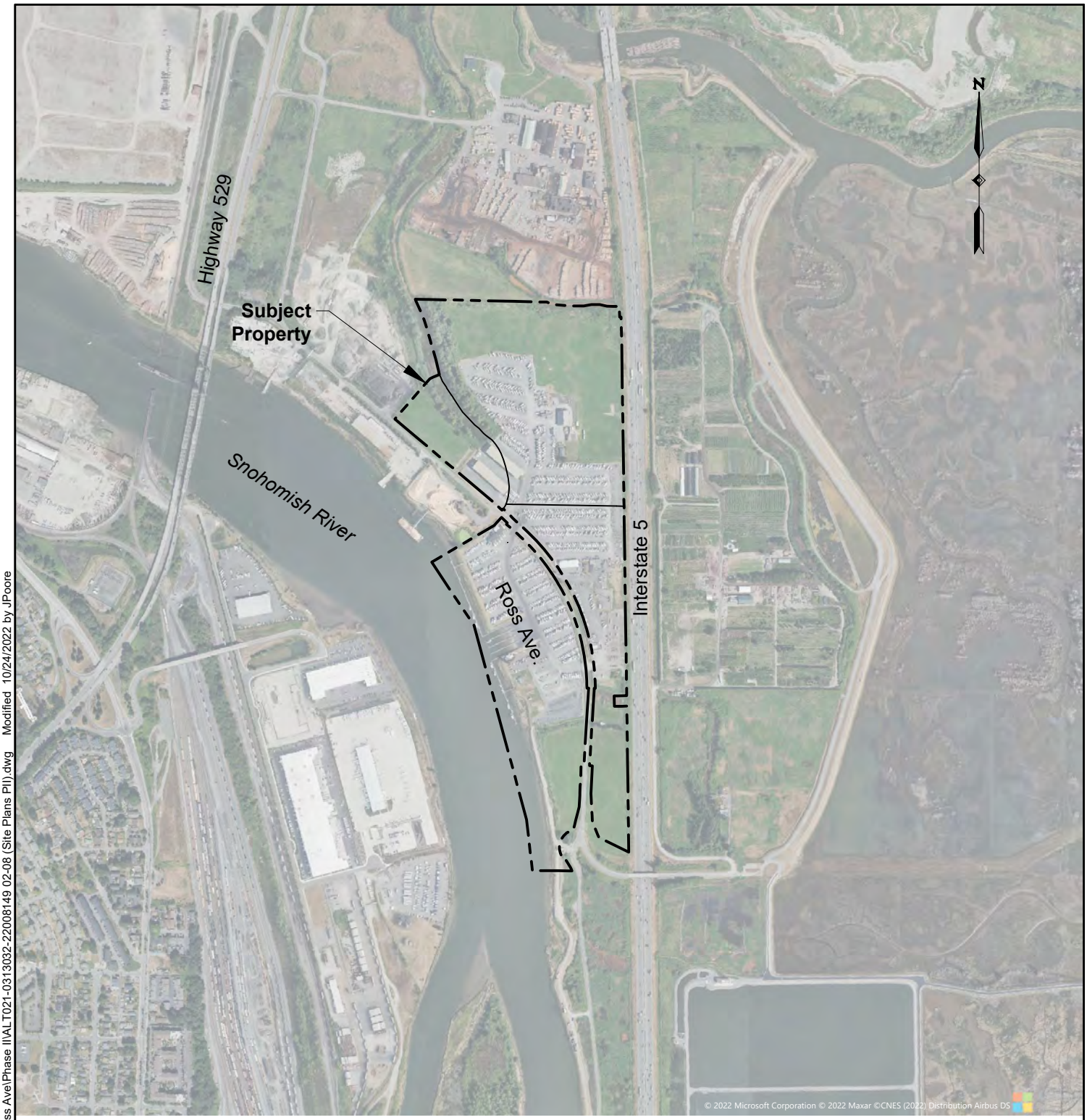
WASHINGTON

Site Location Map

Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC 801 NW 42nd Street, #204 Seattle, Washington 98107	Project Number: 32-22008149	Drawn: JP	Approved: AU	Figure 1
	November 2022			

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 01 (Site Location Map PII).dwg Modified 10/24/2022 by JPoore



NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

0 1,000 2,000

Scale in Feet

Site Plan

Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC 801 NW 42nd Street, #204 Seattle, Washington 98107	Project Number: 32-22008149	Drawn: JP	Approved: AU	Figure 2
	November 2022			

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore

Legend:

⊕ Monitoring Well Location

NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Site Layout

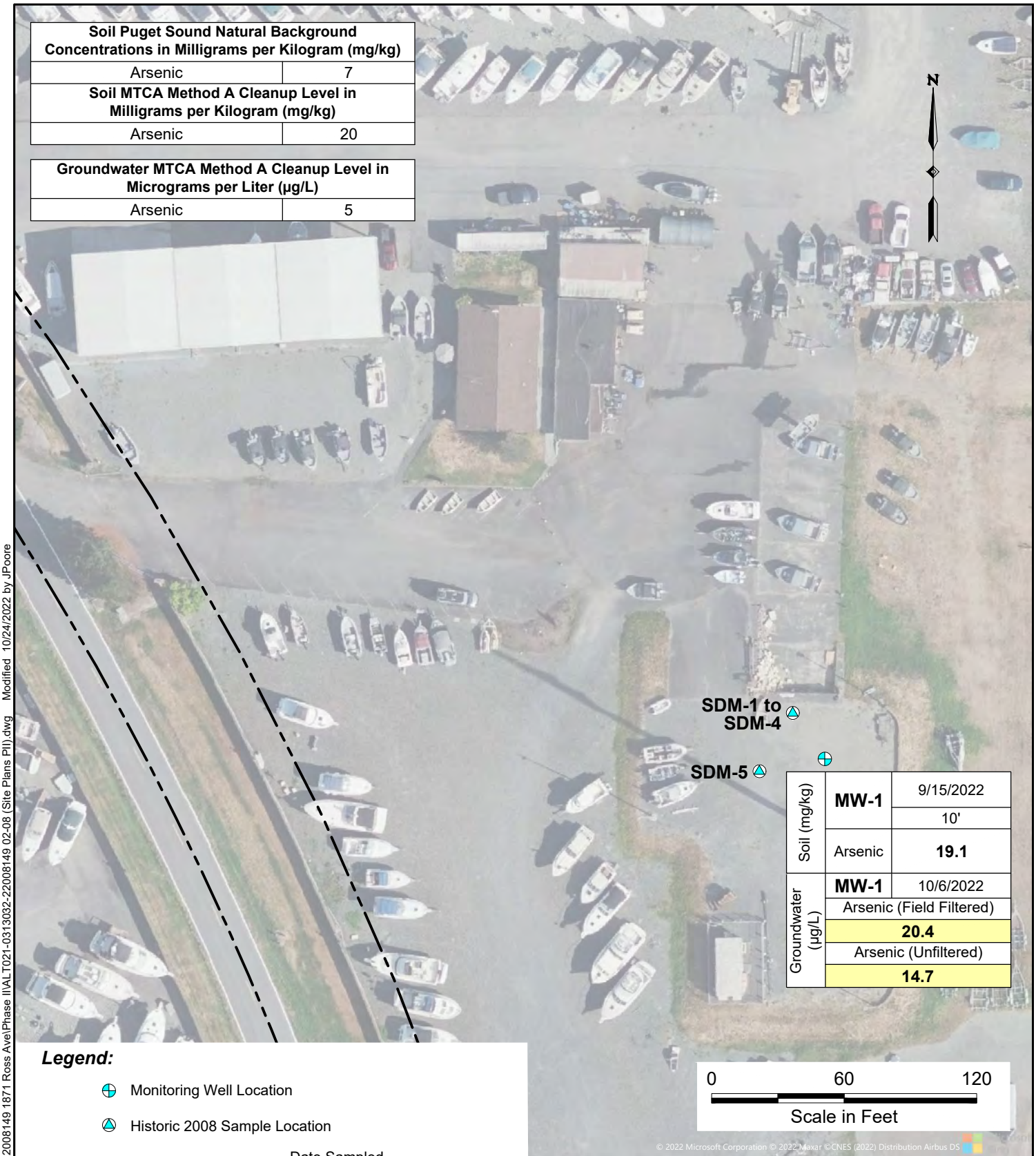
Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC 801 NW 42nd Street, #204 Seattle, Washington 98107	Project Number: 32-22008149	Drawn: JP	Approved: AU	Figure **3**
	November 2022			

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore

Soil Puget Sound Natural Background Concentrations in Milligrams per Kilogram (mg/kg)	
Arsenic	7
Soil MTCA Method A Cleanup Level in Milligrams per Kilogram (mg/kg)	
Arsenic	20

Groundwater MTCA Method A Cleanup Level in Micrograms per Liter (µg/L)	
Arsenic	5



Legend:

- Monitoring Well Location
- Historic 2008 Sample Location

Soil (mg/kg)	MW-1	9/15/2022
		10'
	Arsenic	**19.1**

- Sample Identification
- Result Type
- Analyte Sampled
- Date Sampled
- Depth of Sample (Soil Results Only)
- Detected Concentration (**Bold** Indicates Result Above Detection Limit) (Highlight = Cleanup Level Exceedance)

NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Boat Country and Arsenic Area Soil and Groundwater Results

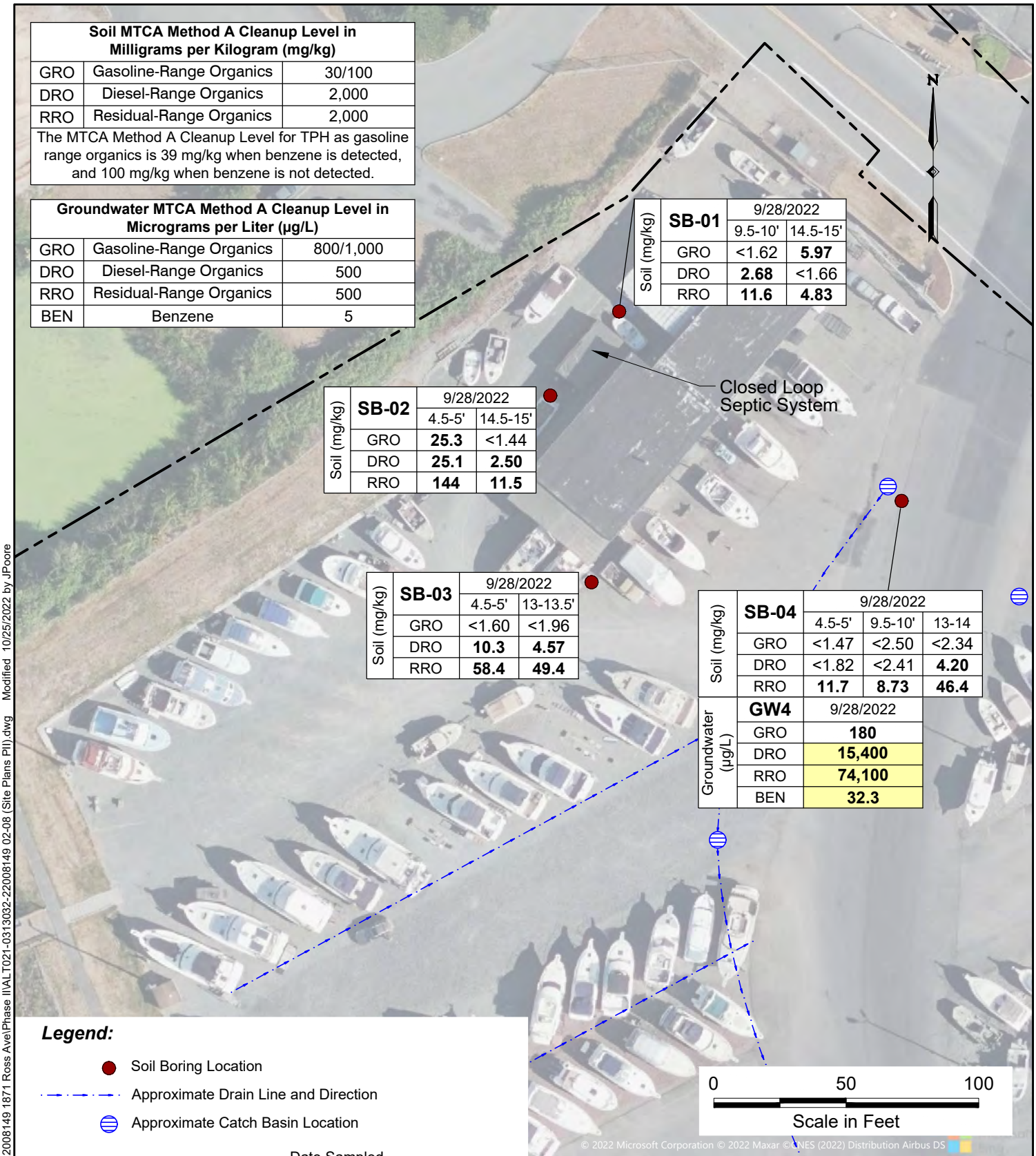
Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Project Number:	Drawn:	Approved:	Figure
32-22008149	JP	AU	4

November 2022

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore



Soil MTCA Method A Cleanup Level in Milligrams per Kilogram (mg/kg)		
GRO	Gasoline-Range Organics	30/100
DRO	Diesel-Range Organics	2,000
RRO	Residual-Range Organics	2,000
The MTCA Method A Cleanup Level for TPH as gasoline range organics is 39 mg/kg when benzene is detected, and 100 mg/kg when benzene is not detected.		

Groundwater MTCA Method A Cleanup Level in Micrograms per Liter (µg/L)		
GRO	Gasoline-Range Organics	800/1,000
DRO	Diesel-Range Organics	500
RRO	Residual-Range Organics	500
BEN	Benzene	5

Soil (mg/kg)	SB-01	9/28/2022	
		9.5-10'	14.5-15'
	GRO	<1.62	**5.97**
	DRO	**2.68**	<1.66
	RRO	**11.6**	**4.83**

Soil (mg/kg)	SB-02	9/28/2022	
		4.5-5'	14.5-15'
	GRO	**25.3**	<1.44
	DRO	**25.1**	**2.50**
	RRO	**144**	**11.5**

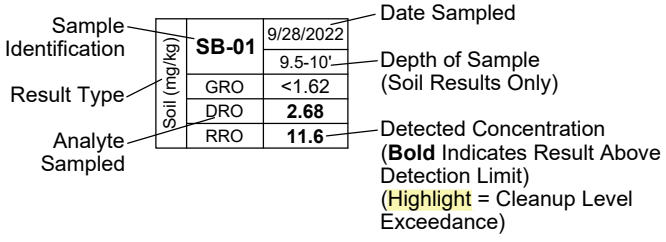
Soil (mg/kg)	SB-03	9/28/2022	
		4.5-5'	13-13.5'
	GRO	<1.60	<1.96
	DRO	**10.3**	**4.57**
	RRO	**58.4**	**49.4**

Soil (mg/kg)	SB-04	9/28/2022		
		4.5-5'	9.5-10'	13-14
	GRO	<1.47	<2.50	<2.34
	DRO	<1.82	<2.41	**4.20**
	RRO	**11.7**	**8.73**	**46.4**

Groundwater (µg/L)	GW4	9/28/2022
	GRO	**180**
	DRO	**15,400**
	RRO	**74,100**
	BEN	**32.3**

Legend:

- Soil Boring Location
- Approximate Drain Line and Direction
- Approximate Catch Basin Location



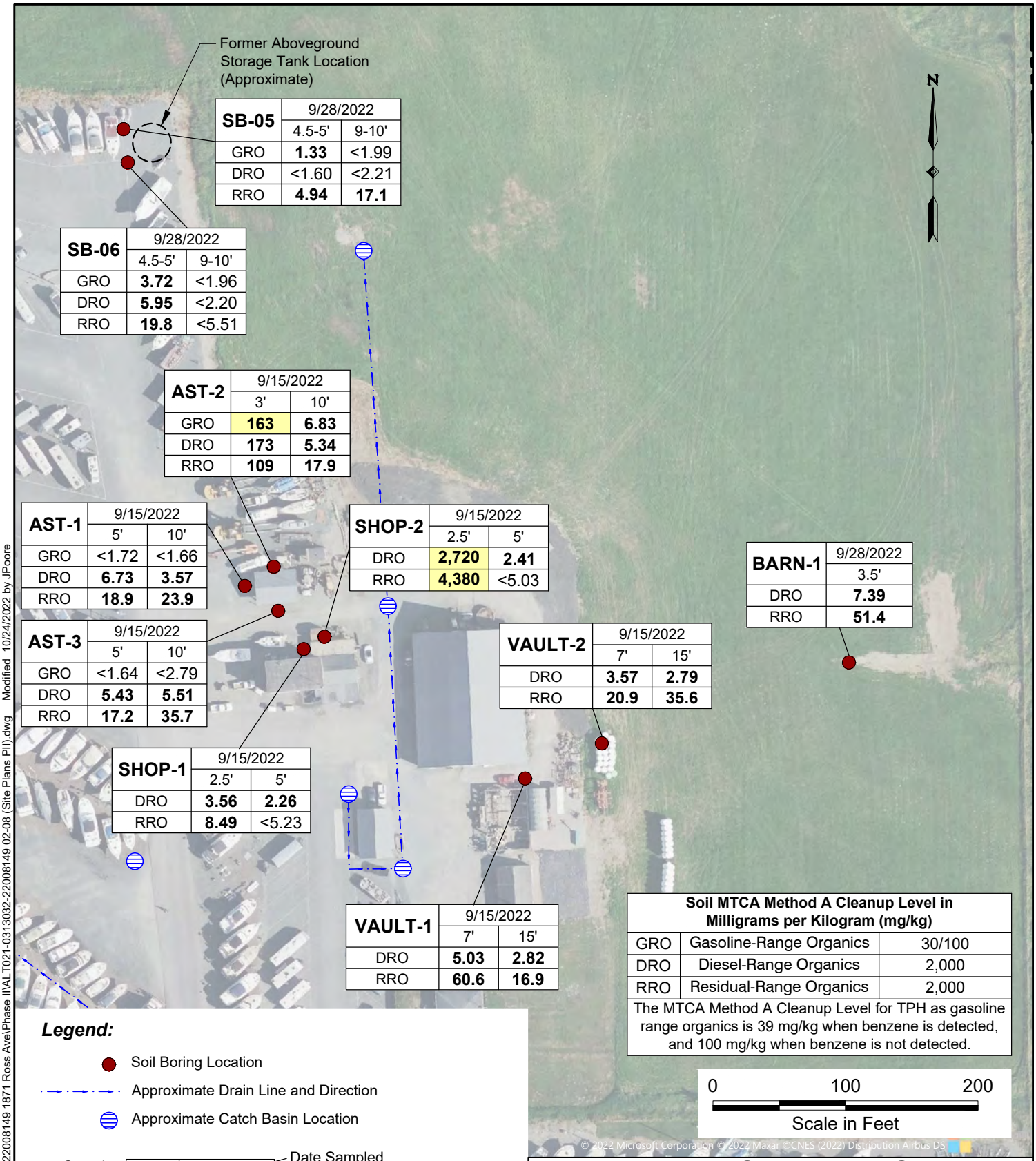
NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Snohomish Marine Building Soil and Groundwater Results

Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Project Number:	Drawn:	Approved:	Figure
32-22008149	JP	AU	5
November 2022			



Soil MTCA Method A Cleanup Level in Milligrams per Kilogram (mg/kg)		
GRO	Gasoline-Range Organics	30/100
DRO	Diesel-Range Organics	2,000
RRO	Residual-Range Organics	2,000

The MTCA Method A Cleanup Level for TPH as gasoline range organics is 39 mg/kg when benzene is detected, and 100 mg/kg when benzene is not detected.

NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Maintenance Shop and AST Area Soil Results

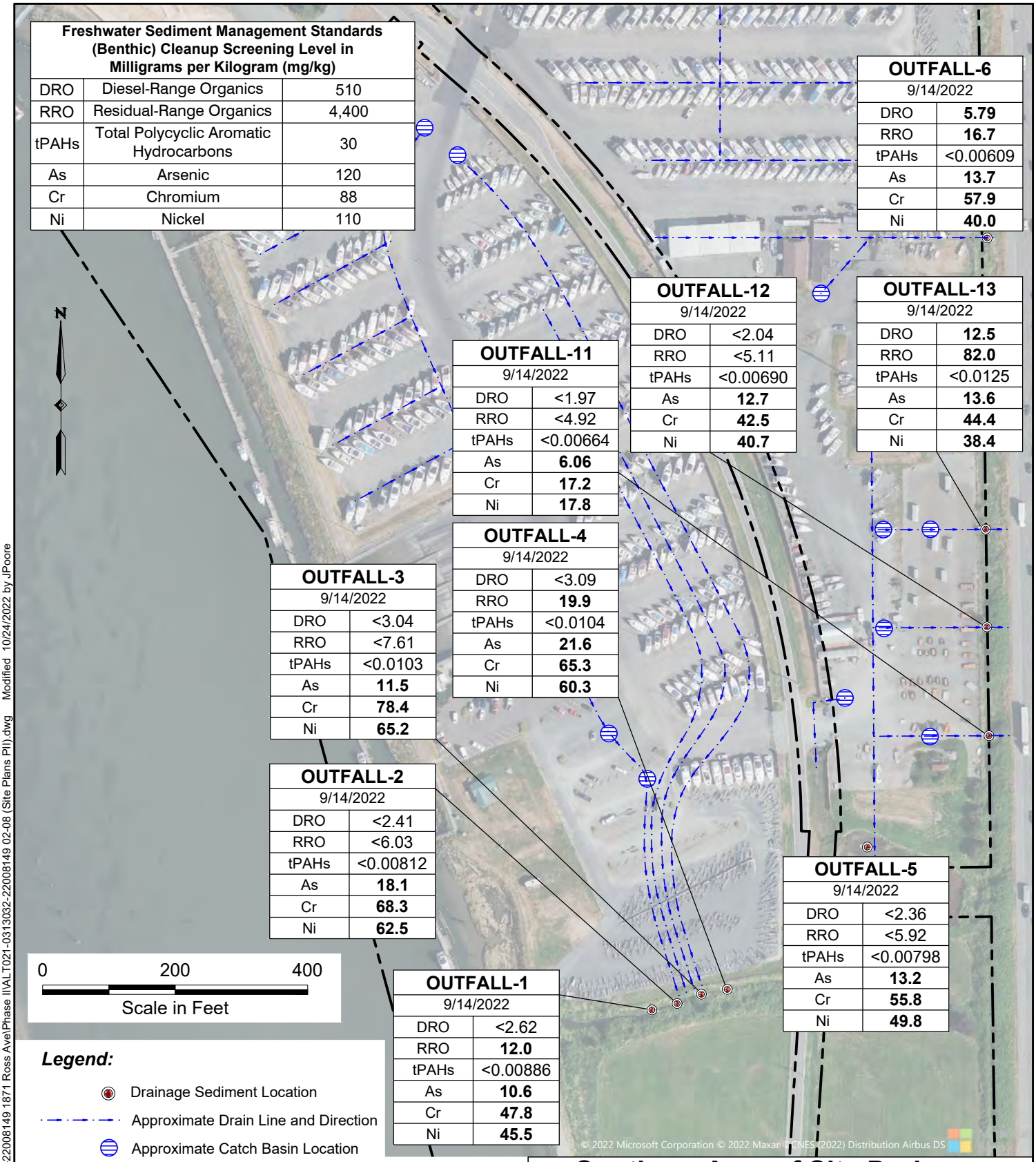
Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Project Number:	Drawn:	Approved:	Figure
32-22008149	JP	AU	6

November 2022

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore



Freshwater Sediment Management Standards (Benthic) Cleanup Screening Level in Milligrams per Kilogram (mg/kg)		
DRO	Diesel-Range Organics	510
RRO	Residual-Range Organics	4,400
tPAHs	Total Polycyclic Aromatic Hydrocarbons	30
As	Arsenic	120
Cr	Chromium	88
Ni	Nickel	110

OUTFALL-6	
9/14/2022	
DRO	**5.79**
RRO	**16.7**
tPAHs	<0.00609
As	**13.7**
Cr	**57.9**
Ni	**40.0**

OUTFALL-12	
9/14/2022	
DRO	<2.04
RRO	<5.11
tPAHs	<0.00690
As	**12.7**
Cr	**42.5**
Ni	**40.7**

OUTFALL-13	
9/14/2022	
DRO	**12.5**
RRO	**82.0**
tPAHs	<0.0125
As	**13.6**
Cr	**44.4**
Ni	**38.4**

OUTFALL-11	
9/14/2022	
DRO	<1.97
RRO	<4.92
tPAHs	<0.00664
As	**6.06**
Cr	**17.2**
Ni	**17.8**

OUTFALL-4	
9/14/2022	
DRO	<3.09
RRO	**19.9**
tPAHs	<0.0104
As	**21.6**
Cr	**65.3**
Ni	**60.3**

OUTFALL-3	
9/14/2022	
DRO	<3.04
RRO	<7.61
tPAHs	<0.0103
As	**11.5**
Cr	**78.4**
Ni	**65.2**

OUTFALL-2	
9/14/2022	
DRO	<2.41
RRO	<6.03
tPAHs	<0.00812
As	**18.1**
Cr	**68.3**
Ni	**62.5**

OUTFALL-5	
9/14/2022	
DRO	<2.36
RRO	<5.92
tPAHs	<0.00798
As	**13.2**
Cr	**55.8**
Ni	**49.8**

OUTFALL-1	
9/14/2022	
DRO	<2.62
RRO	**12.0**
tPAHs	<0.00886
As	**10.6**
Cr	**47.8**
Ni	**45.5**

0 200 400

Scale in Feet

Legend:

- Drainage Sediment Location
- Approximate Drain Line and Direction
- Approximate Catch Basin Location

Sample Identification — OUTFALL-1 — Date Sampled: 9/14/2022

Analyte Sampled	Concentration in mg/kg (**Bold** Indicates Result Above Detection Limit)
DRO	<2.62
RRO	**12.0**
tPAHs	<0.00886
As	**10.6**
Cr	**47.8**
Ni	**45.5**

NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Southern Area of Site Drainage Sediment Results

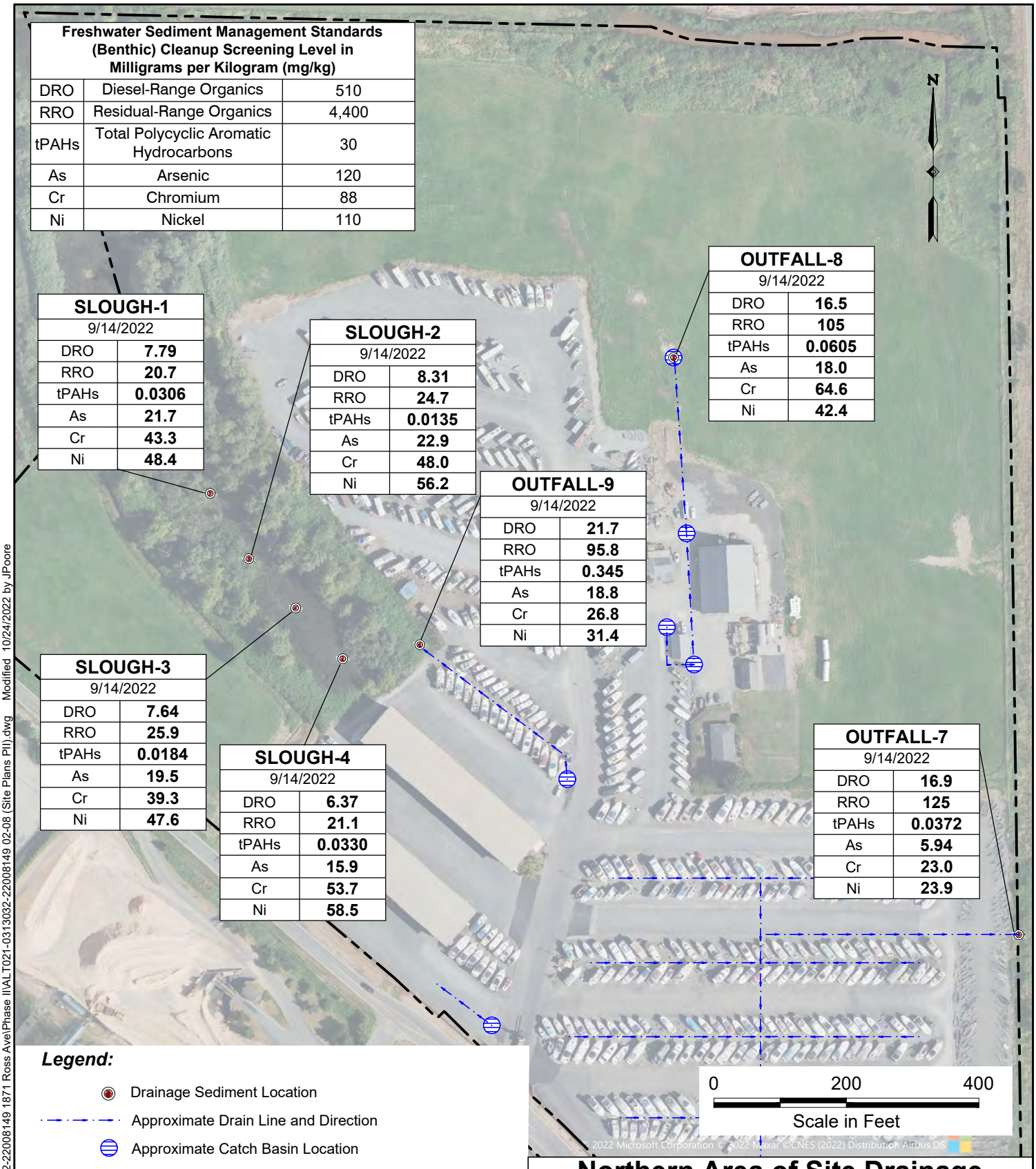
Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Project Number:	Drawn:	Approved:	Figure
32-22008149	JP	AU	7

November 2022

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore



Freshwater Sediment Management Standards (Benthic) Cleanup Screening Level in Milligrams per Kilogram (mg/kg)		
DRO	Diesel-Range Organics	510
RRO	Residual-Range Organics	4,400
tPAHs	Total Polycyclic Aromatic Hydrocarbons	30
As	Arsenic	120
Cr	Chromium	88
Ni	Nickel	110

SLOUGH-1	
9/14/2022	
DRO	**7.79**
RRO	**20.7**
tPAHs	**0.0306**
As	**21.7**
Cr	**43.3**
Ni	**48.4**

SLOUGH-2	
9/14/2022	
DRO	**8.31**
RRO	**24.7**
tPAHs	**0.0135**
As	**22.9**
Cr	**48.0**
Ni	**56.2**

OUTFALL-8	
9/14/2022	
DRO	**16.5**
RRO	**105**
tPAHs	**0.0605**
As	**18.0**
Cr	**64.6**
Ni	**42.4**

OUTFALL-9	
9/14/2022	
DRO	**21.7**
RRO	**95.8**
tPAHs	**0.345**
As	**18.8**
Cr	**26.8**
Ni	**31.4**

SLOUGH-3	
9/14/2022	
DRO	**7.64**
RRO	**25.9**
tPAHs	**0.0184**
As	**19.5**
Cr	**39.3**
Ni	**47.6**

SLOUGH-4	
9/14/2022	
DRO	**6.37**
RRO	**21.1**
tPAHs	**0.0330**
As	**15.9**
Cr	**53.7**
Ni	**58.5**

OUTFALL-7	
9/14/2022	
DRO	**16.9**
RRO	**125**
tPAHs	**0.0372**
As	**5.94**
Cr	**23.0**
Ni	**23.9**

Legend:

- Drainage Sediment Location
- Approximate Drain Line and Direction
- Approximate Catch Basin Location

Sample Identification → **SLOUGH-1**

9/14/2022 ← Date Sampled

Analyte Sampled	
DRO	**7.79**
RRO	**20.7** ← Concentration in mg/kg (**Bold** Indicates Result Above Detection Limit)
tPAHs	**0.0306**
As	**21.7**
Cr	**43.3**
Ni	**48.4**

NOTE: Base map prepared from Microsoft Bing imagery (2022). Parcel information from Snohomish County (ftp://ftp.snoco.org/assessor).

Northern Area of Site Drainage Sediment Results

Phase II Environmental Site Assessment
Dagmars Marina Facility - 1871 Ross Avenue
Everett, Washington

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Project Number:	Drawn:	Approved:	Figure
32-22008149	JP	AU	8

November 2022

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\ALT021-0313032-22008149 02-08 (Site Plans PII).dwg Modified 10/24/2022 by JPoore

Appendix A

Geophysical Survey Report

Geophysical Survey LLC
711 S Tacoma Street
Kennewick, Washington 99336

September 5, 2022

Anders Utter
Apex Companies, LLC
801 NW 42nd Street, Suite 204
Seattle, WA 98107

Re: ***GPR Investigation***
Dagmars Marina
Everett, Washington

Mr. Utter:

Geophysical Survey LLC conducted a GPR investigation at 1870 Ross Avenue in Everett, Washington on August 29, 2022. The objective of the investigation was to detect and delineate underground storage tanks (USTs) and subsurface utilities.

Methodology

Ground-Penetrating Radar

Ground-penetrating radar (GPR) uses a transducer to transmit FM frequency electromagnetic energy into the ground. Interfaces in the ground, defined by contrasts in dielectric constants, magnetic susceptibility, and to some extent, electrical conductivity, reflect the transmitted energy. The GPR system then measures the travel time between transmitted pulses and arrival of reflected energy. Buried objects such as pipes, barrels, foundations, and buried wires can cause all or a portion of the transmitted energy to be reflected back towards a receiving antenna. Geologic features such as cross-bedding, lateral and vertical changes in soil properties, and rock interfaces can also cause reflections of a portion of the EM energy.

The dielectric constant and magnetic susceptibility of the medium primarily control the velocity of the EM energy. Values of EM velocities, for depth calculations, are determined by measurement, experience in an area, by ties to known buried reflectors, and from knowledge of the subsurface medium.

The depth of investigation is a function of the transmit power, receiver sensitivity, frequency of the antenna, and attenuation of the transmitted energy due to the geologic medium. The maximum depth of investigation may vary significantly as a result of the changing soil conditions. High attenuation, and consequent smaller penetration depths, of the EM energy typically occurs where the soil conductivity is greater than 25 milli-siemens per meter and/or in areas with numerous reflective interfaces. Depth of investigation is also affected by highly conductive material, such as metal drums and pipes that essentially reflect all the energy. The method cannot “see” directly below areas of highly reflective material because all of the energy is reflected.

FIELD SURVEY

Mapping Control

A Trimble Pro6H GPS with sub-foot accuracy (<12in) was used to map site features.

GPR Data Acquisition

GPR data were acquired with a Geophysical Survey Systems, Inc. (GSSI) G1 control unit and a 350 MHz antenna. GPR data were collected at 15 scans/foot with a with a 60 nano-second window (depth of investigation of approximately 9 feet). Gains were adjusted manually across the site to match local conditions.

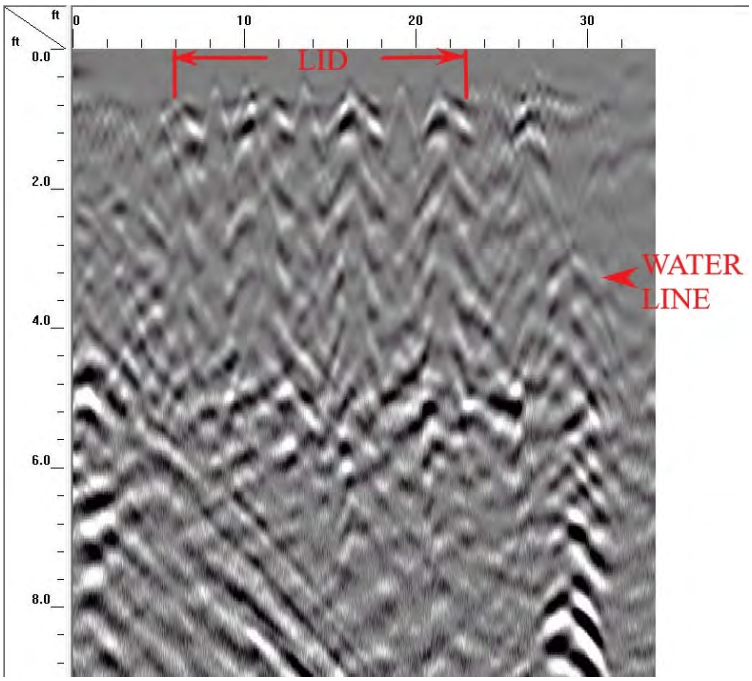
DATA PROCESSING

GPR Data Processing

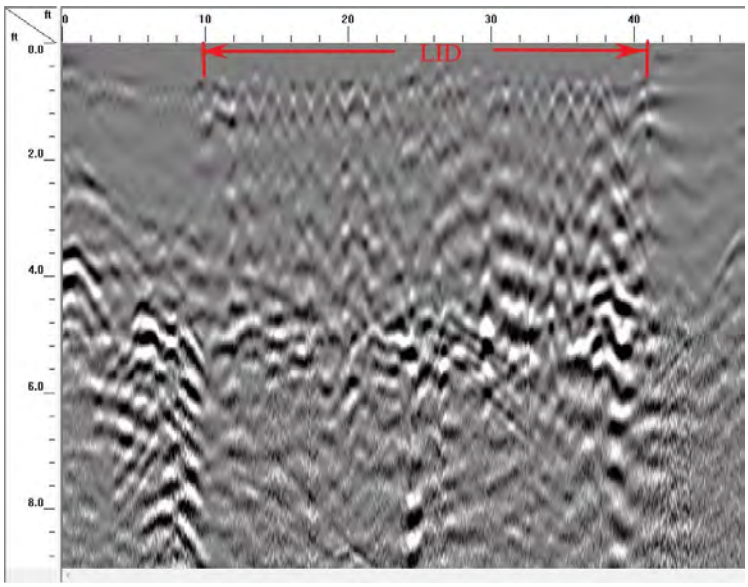
GPR data were processed using Radan 7 from GSSI. Processing included a background filter and deconvolution. Anomalies were digitized to CAD format.

RESULTS AND INTERPRETATION

The metal plates in the southeast corner of the investigation area are on the surface of a 20 by 30 foot reinforced concrete lid. The concrete is approximately 8 inches thick. The vault below the lid is filled with water. The images below, GPR Data 1 & 2, show orthogonal GPR transects across the concrete lid.



GPR Data 1



GPR Data 2

Location 1

The image above, Location 1, shows the open access to the vault on the east side.

A catch basin, approximately 10 by 12 feet, and a buried storm grate were detected in the center of the investigation area. Subsurface utilities are painted and whiskered.

The GPR investigation was conducted in areas with vehicles. Subsurface utilities and geophysical anomalies would not be detected under or in close proximity to vehicles.

CLOSURE

Geophysical surveys performed as part of this survey may or may not successfully detect or delineate any or all subsurface objects or features present. Locations, depths and scale of buried objects or subsurface features mapped as a result of this survey are a result of geophysical interpretation, and should be considered as confirmed, actual, or accurate only where recovered by excavation or drilling.

Geophysical Survey LLC performed this work in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is made. This report is intended for use only in accordance with the purposes of the study described within.

Respectfully,

Geophysical Survey LLC

Mark Villa R.G.

GPR Investigation
Dagmars Marina
Everett, Washington

LIST OF FIGURES

Legend

2.0	Depth to top in feet
E	Unidentified utility
AB E	Electrical line
W	Abandoned electric
DL	Water line
SD	Drain line
AIR	Storm drain
	Air line
	Cistern
	Catch basin
	Storm grate

1 Inch = 30 Feet

0 30

GEOPHYSICAL SURVEY LLC

FIGURE 1
GPR Interpretation
Dagmars Marina
Everett, WA

Appendix B

Boring Logs

Sample Descriptions

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, and grain size, and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:
MAJOR CONSTITUENT with additional remarks; color, moisture, minor constituents, density/consistency.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits and push probe explorations is estimated based on visual observation and is presented parenthetically on test pit and push probe exploration logs.

SAND and GRAVEL Density	Standard Penetration Resistance in Blows/Foot
Very loose	0 - 4
Loose	4 - 10
Medium dense	10 - 30
Dense	30 - 50
Very dense	>50

SILT or CLAY Density	Standard Penetration Resistance in Blows/Foot	Approximate Shear Strength in TSF
Very soft	0 - 2	<0.125
Soft	2 - 4	0.125 - 0.25
Medium stiff	4 - 8	0.25 - 0.5
Stiff	8 - 15	0.5 - 1.0
Very Stiff	15 - 30	1.0 - 2.0
Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture.
Sl. Moist	Some perceptible moisture, probably below optimum.
Moist	Probably near optimum moisture content.
Wet	Much perceptible moisture, probably above optimum.

Minor Constituents

	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Sampling Symbols

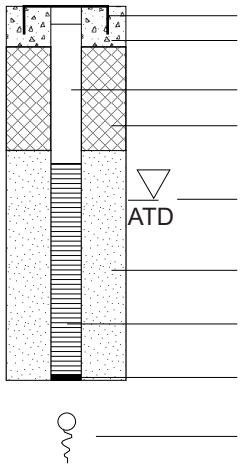
BORING AND PUSH-PROBE SYMBOLS

- Recovery
- No Recovery
- Temporarily Screened Interval
- PID — Photoionization Detector Reading
- W — Water Sample
- Sample Submitted for Chemical Analysis
- NS — No Sheen
- SS — Slight Sheen
- MS — Moderate Sheen
- HS — Heavy Sheen
- BF — Biogenic Film

TEST PIT SOIL SAMPLES

- Grab (Jar)
- Bag
- Shelby Tube

Groundwater Observations and Monitoring Well Construction



- Flush Mounted Monument Concrete Surface Seal
- Well Casing
- Bentonite Seal
- Groundwater Level on Date or (ATD) At Time of Drilling
- Sand Pack
- Well Screen
- End Cap
- Groundwater Seepage (Test Pits)

Key to Exploration Logs

Phase II Environmental Site Assessment
1871 Ross Avenue
Everett, Washington

APEX	Apex Companies, LLC 801 NW 42nd Street, #204 Seattle, Washington 98107	Project Number: ALTERRA-064	Drawn: JP	Approved: JF
		October 2022		Figure **Key**

I:\Client\Alterra Property Group LLC\32-22008149 1871 Ross Ave\Phase II\Logs

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

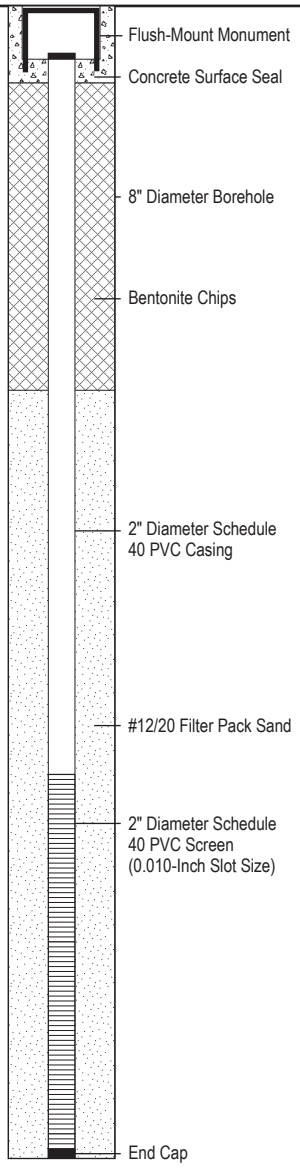
Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **MW-1**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: 7822DT
Sampler Type: Acetate Sleeve
Depth to Water (ATD): ~10'
Surface Elevation: Not Measured

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger				SAND (SP); dark olive gray (5Y 3/2), moist, poorly graded, fine to medium-grained, non-plastic. No odor, no sheen.
5			<5	NS	SILT (ML); very dark grayish brown (2.5Y 3/2), wet, fine-grained, low plasticity. No odor, no sheen.
10		MW-1-10'	<5	NS	SILT (ML); olive brown (2.5Y 4/3), moist to wet, fine-grained, low plasticity. No odor, no sheen.
15			<5	NS	Bottom of Boring at 15.0' BGS.

Well Constuction Details and Notes:



Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SHOP-1**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger				Silty SAND and GRAVEL (SM-GM).
			<5	NS	SAND (SP); dark grayish brown (10YR 4/2), moist, poorly graded, medium-grained, non-plastic. No odor, no sheen.
		SHOP-1-2.5'	<5	NS	
			<5	NS	SILT (ML); dark gray (10YR 4/1), moist, poorly graded, fine-grained, low to medium plasticity. No odor, no sheen.
5		SHOP-1-5'	<5	NS	Bottom of Boring at 5.0' BGS.
10					
15					

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SHOP-2**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger				Silty SAND and GRAVEL (SM-GM).
			<5	NS	SAND (SP); dark grayish brown (10YR 4/2), moist, poorly graded, medium-grained, non-plastic. No odor, no sheen.
		SHOP-2-2.5'	<5	NS	
			<5	NS	SILT (ML); dark gray (10YR 4/1), moist, poorly graded, fine-grained, low to medium plasticity. No odor, no sheen.
5		SHOP-2-5'	<5	NS	
					Bottom of Boring at 5.0' BGS.
10					
15					

Boring Details and Notes:

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **BARN-1**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5	NS	Sandy SILT (ML); yellowish brown (10YR 5/4), slightly moist, poorly graded, fine-grained, non-plastic. No odor, no sheen.
		BARN-1-3.5'	<5	NS	SILT (ML); brown (10YR 4/3), moist, poorly graded, fine-grained, low plasticity. Approximately 15% plant matter present. No odor, no sheen.
5			<5	NS	Bottom of Boring at 5.0' BGS.
10					
15					

Boring Details and Notes:

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **AST-1**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger	AST-1-5'	<5	NS	GRAVEL with silt and sand (GW-GM); grayish brown (10YR 5/2), slightly moist, well graded, fine to coarse-grained, non-plastic. No odor, no sheen.
			<5	NS	
			<5	NS	SILT (ML); dark gray (2.5Y 4/1), moist, poorly graded, fine-grained, low plasticity. No odor, no sheen.
5			<5	NS	
			<5	NS	SILT (ML); dark gray (2.5Y 4/1), moist to wet, poorly graded, fine-grained, low plasticity. Approximately 15% plant matter present. No odor, no sheen.
			<5	NS	
10		AST-1-10'	<5	NS	Bottom of Boring at 10' BGS.
15					

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **AST-2**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger	AST-2-3'	184	NS	GRAVEL with silt and sand (GW-GM); grayish brown (10YR 5/2), slightly moist, well graded, fine to coarse-grained, non-plastic. With some odor from 2-3'.
			227	NS	
			13	NS	SILT (ML); dark gray (2.5Y 4/1), moist, poorly graded, fine-grained, low plasticity.
5			6	NS	
			<5	NS	SILT (ML); dark gray (2.5Y 4/1), moist, poorly graded, fine-grained, low plasticity. With a hydrocarbon-like odor. Approximately 15% plant matter present.
10		AST-2-10'	<5	NS	Bottom of Boring at 10' BGS.
15					

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **AST-3**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5	NS	GRAVEL with silt and sand (GW-GM); grayish brown (10YR 5/2), slightly moist, well graded, fine to coarse-grained, non-plastic. No odor, no sheen.
			<5	NS	
			<5	NS	SILT (ML); dark reddish gray (2.5Y 4/1), moist, poorly graded, fine-grained, low plasticity. No odor, no sheen.
5		AST-3-5'	<5	NS	
			<5	NS	SILT (ML); dark gray (2.5Y 4/1), moist, poorly graded, low plasticity. Approximately 15% plant matter present. No odor, no sheen.
10		AST-3-10'	<5	NS	Bottom of Boring at 10' BGS.
15					

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **VAULT-1**

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5	NS	SAND (SP); very dark grayish brown (10YR 3/2), slightly moist, poorly graded, medium-grained, non-plastic. No odor, no sheen.
5			<5	NS	SILT (ML); dark gray (10YR 4/1), moist, poorly graded, fine-grained, low plasticity. Approximately 5-10% plant matter present. No odor, no sheen.
		VAULT-1-7'	<5	NS	
10			<5	NS	Becomes very moist.
			<5	NS	
15		VAULT-1-15'	<5	NS	Bottom of Boring at 15' BGS.

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: VAULT-2

Project Number: **32-22008149**
Logged By: C. Stout
Date: September 15, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Hand Auger
Sampler Type: Acetate Sleeve
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5	NS	SILT (ML); dark grayish brown (10YR 4/2), moist, poorly graded, fine-grained. No odor, no sheen.
5			<5	NS	
		VAULT-2-7'	<5	NS	SILT (ML); dark gray (10YR 4/1), moist, poorly graded, fine-grained, low plasticity. No odor, no sheen.
10			<5	NS	
			<5	NS	SILT (ML); dark gray (10YR 4/1), moist to wet, poorly graded, fine-grained, low plasticity. Approximately 5-10% plant matter present. No odor, no sheen.
15		VAULT-2-15'	<5	NS	Bottom of Boring at 15' BGS.

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SB-1**

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 28, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): 10'
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5		Gravel fill layer (7") over SAND (SP); tan to dark brown, dry, poorly graded, trace gravel, medium dense. No odor, no sheen
			<5		
5		SB-01-(4.5-5')	<5	NS	
					GRAVEL (GP); gray to dark brown, wet, poorly graded, trace silt, trace sand, medium dense. No odor, no sheen.
			<5		
10		SB-01-(9.5-10')		NS	
					Silty CLAY (CL); gray, wet, medium plasticity. No odor, no sheen.
			<5		
			<5	NS	
15		SB-01-(14.5-15')	<5		
					Bottom of Boring at 15' BGS. *Note: Backfilled with bentonite and gravel patch.*

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SB-2**

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 28, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): Not Encountered
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
0	Hand Auger		<5	NS	Gravel fill layer (7") over SAND (SP); tan and brown, dry, poorly graded, medium dense. No odor, no sheen.
5		SB-02-(4.5-5')	<5		Clayey SILT (ML); dark gray, moist, low plasticity. No odor, no sheen.
10		SB-02-(9.5-10')			SILT (ML); dark gray, moist, low plasticity, trace sand. No odor, no sheen.
15		SB-02-(14.5-15')			Bottom of Boring at 15' BGS. *Note: Backfilled with bentonite and gravel patch.*

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SB-3**

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 28, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): 10'
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5		Gravel fill layer (7") over clayey SAND (SC); gray, moist, low plasticity. No odor, no sheen.
5		SB-03-(4.5-5')	<5	NS	
			<5		Sandy CLAY (SC); gray, moist, high plasticity. No odor, no sheen.
			<5		
			<5		
10		SB-03-(9.5-10')		NS	
			<5		CLAY with sand (CL); gray, wet, high plasticity, trace organics. No odor, no sheen.
				NS	
		SB-03-(13-13.5')	<5		
15					Bottom of Boring at 15' BGS. *Note: Backfilled with bentonite and gravel patch.*

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: SB-4

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 28, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): 10'
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
	Hand Auger		<5	NS	Asphalt layer (7") over sandy SILT (SM); dark gray, dry, medium dense. No odor, no sheen.
5		SB-04-(4.5-5')	<5	NS	
			<5		Silty CLAY (CL); light gray and tan, moist, low plasticity, trace organics. Slight organic odor, no sheen.
			27		
10		SB-04-(9.5-10')	30 W	NS	
			25		Silty CLAY (CL); light gray and tan, wet, low plasticity, trace organics. Strong organic odor, no sheen.
			17		
		SB-04-(13-14')	27		
			<5		
15			<5		Bottom of Boring at 15' BGS. *Note: Temporary monitoring well installed with screen from 5-15'. Backfilled with bentonite and asphalt patch after temporary monitoring well removed.*

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SB-5**

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 29, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): 10'
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
0	Hand Auger		<5		Gravel fill layer (7") over clayey SAND (SC); tan to dark brown, moist, medium plasticity. No odor, no sheen.
5		SB-05-(4.5-5')	<5	NS	
			<5		Silty CLAY (CL); grayish brown, moist, medium plasticity. No odor, no sheen.
			<5		
			<5		
10		SB-05-(9-10')	<5	NS	
			<5		
15		SB-05-(14-15')	<5	NS	
					Bottom of Boring at 15' BGS. *Note: Backfilled with bentonite and gravel patch.*

Apex Companies, LLC
801 NW 42nd Street, #204
Seattle, Washington 98107

Alterra Property Group, LLC
1871 Ross Avenue
Everett, Washington

Boring Number: **SB-6**

Project Number: **32-22008149**
Logged By: H. Hiscox
Date: September 29, 2022
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Air Knife/Direct Push
Sampler Type: Grab
Depth to Water (ATD): 4'
Surface Elevation: Not Measured

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
0	Hand Auger		<5		Gravel fill layer (7") over clayey SAND (SC); tan to dark brown, moist, medium plasticity. No odor, no sheen.
5		SB-06-(4.5-5')	<5	NS	
			<5		Silty CLAY (CL); gray, moist, medium plasticity. No odor, no sheen.
			<5		
			<5		
10		SB-06-(9-10')	<5	NS	
			<5		
			<5		
			<5		
15		SB-06-(14-15')	<5	NS	

Bottom of Boring at 15' BGS.
Note: Backfilled with bentonite and gravel patch.

Appendix C

Analytical Laboratory Reports

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

ANALYTICAL REPORT

Friday, October 7, 2022

Anders Utter
Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201

RE: A2I0798 - Alterra - Dagmars Phase II - ALT021-0313032-22008149 Task 03

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

Enclosed are the results of analyses for work order A2I0798, which was received by the laboratory on 9/23/2022 at 5:50:00PM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	5.0 degC

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Slough 1-4	**A2I0798-01**	**Sediment**	**09/14/22 12:00**	**09/23/22 17:50**

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Slough 1-4 (A2I0798-01RE1)				**Matrix: Sediment**		**Batch: 22I1010**		**C-05**
Aldrin	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
alpha-BHC	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
beta-BHC	ND	---	10.3	ug/kg dry	1	10/03/22 18:35	EPA 8081B	R-02
delta-BHC	ND	---	5.99	ug/kg dry	1	10/03/22 18:35	EPA 8081B	R-02
gamma-BHC (Lindane)	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
cis-Chlordane	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
trans-Chlordane	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
4,4'-DDD	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
4,4'-DDE	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
4,4'-DDT	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Dieldrin	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endosulfan I	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endosulfan II	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endosulfan sulfate	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endrin	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endrin Aldehyde	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Endrin ketone	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Heptachlor	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Heptachlor epoxide	ND	---	4.79	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Methoxychlor	ND	---	14.4	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Chlordane (Technical)	ND	---	144	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Toxaphene (Total)	ND	---	144	ug/kg dry	1	10/03/22 18:35	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*50 %*	*Limits: 42-129 %*	*1*	*10/03/22 18:35*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*62 %*	*55-130 %*	*1*	*10/03/22 18:35*	*EPA 8081B*	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

ANALYTICAL SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Slough 1-4 (A2I0798-01)				**Matrix: Sediment**		**Batch: 22I0931**		**RR-1**
Azinphos methyl (Guthion)	ND	---	1180	ug/kg dry	10	09/28/22 18:52	EPA 8270E OPPs	
Slough 1-4 (A2I0798-01RE1)				**Matrix: Sediment**		**Batch: 22I0931**		
Chlorpyrifos	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Coumaphos	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Demeton O	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Demeton S	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Diazinon	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Dichlorvos	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Dimethoate	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Disulfoton	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
EPN	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Ethoprop	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Fensulfothion	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Fenthion	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Malathion	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Merphos	ND	---	175	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	R-02
Methyl parathion	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Monocrotophos	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Parathion, ethyl	ND	---	187	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	R-02
Phorate	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Sulfotep	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
TEPP	ND	---	473	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Trichloronate	ND	---	118	ug/kg dry	1	09/28/22 19:28	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)		*Recovery:*	*67 %*	*Limits:*	*10-136 %*	*1*	*09/28/22 19:28*	*EPA 8270E OPPs*	
Triphenyl phosphate (Surr)			*55 %*		*34-121 %*	*1*	*09/28/22 19:28*	*EPA 8270E OPPs*	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Slough 1-4 (A2I0798-01)				**Matrix: Sediment**		**Batch: 22I0892**		
% Solids	**41.7**	---	1.00	%	1	09/28/22 06:02	EPA 8000D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

APEX LABORATORIES

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I1010 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (22I1010-BLK1)			Prepared: 09/28/22 10:33	Analyzed: 10/03/22 17:46								**C-05**
EPA 8081B												
Aldrin	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
beta-BHC	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
delta-BHC	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
cis-Chlordane	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
trans-Chlordane	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Dieldrin	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endosulfan I	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endosulfan II	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endrin	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Endrin ketone	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Heptachlor	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
Methoxychlor	ND	---	5.45	ug/kg wet	1	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	54.5	ug/kg wet	1	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	54.5	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*	*Limits: 42-129 %*				*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*95 %*	*55-130 %*				*"*				
LCS (22I1010-BS1)			Prepared: 09/28/22 10:33	Analyzed: 10/03/22 18:02								**C-05**
EPA 8081B												
Aldrin	44.5	---	2.00	ug/kg wet	1	50.0	---	89	45-136%	---	---	
alpha-BHC	44.8	---	2.00	ug/kg wet	1	50.0	---	90	45-137%	---	---	
beta-BHC	41.4	---	2.00	ug/kg wet	1	50.0	---	83	50-136%	---	---	
delta-BHC	53.6	---	2.00	ug/kg wet	1	50.0	---	107	47-139%	---	---	
gamma-BHC (Lindane)	47.0	---	2.00	ug/kg wet	1	50.0	---	94	49-135%	---	---	
cis-Chlordane	51.3	---	2.00	ug/kg wet	1	50.0	---	103	54-133%	---	---	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I1010 - EPA 3546/3640A (GPC)							**Sediment**					
LCS (22I1010-BS1)			Prepared: 09/28/22 10:33		Analyzed: 10/03/22 18:02							**C-05**
trans-Chlordane	49.9	---	2.00	ug/kg wet	1	50.0	---	100	53-135%	---	---	
4,4'-DDD	60.0	---	2.00	ug/kg wet	1	50.0	---	120	56-139%	---	---	
4,4'-DDE	54.8	---	2.00	ug/kg wet	1	50.0	---	110	56-134%	---	---	
4,4'-DDT	63.1	---	2.00	ug/kg wet	1	50.0	---	126	50-141%	---	---	
Dieldrin	52.8	---	2.00	ug/kg wet	1	50.0	---	106	56-136%	---	---	
Endosulfan I	50.2	---	2.00	ug/kg wet	1	50.0	---	100	53-132%	---	---	
Endosulfan II	54.7	---	2.00	ug/kg wet	1	50.0	---	109	53-134%	---	---	
Endosulfan sulfate	55.6	---	2.00	ug/kg wet	1	50.0	---	111	55-136%	---	---	
Endrin	56.6	---	2.00	ug/kg wet	1	50.0	---	113	57-140%	---	---	
Endrin Aldehyde	50.2	---	2.00	ug/kg wet	1	50.0	---	100	35-137%	---	---	
Endrin ketone	56.2	---	2.00	ug/kg wet	1	50.0	---	112	55-136%	---	---	
Heptachlor	44.8	---	2.00	ug/kg wet	1	50.0	---	90	47-136%	---	---	
Heptachlor epoxide	50.4	---	2.00	ug/kg wet	1	50.0	---	101	52-136%	---	---	
Methoxychlor	65.1	---	6.00	ug/kg wet	1	50.0	---	130	52-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 79 %*		*Limits: 42-129 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*103 %*		*55-130 %*				*"*			
LCS Dup (22I1010-BSD1)			Prepared: 09/28/22 11:54		Analyzed: 10/03/22 18:19							**C-05, Q-19**
EPA 8081B												
Aldrin	43.6	---	2.00	ug/kg wet	1	50.0	---	87	45-136%	2	30%	
alpha-BHC	43.9	---	2.00	ug/kg wet	1	50.0	---	88	45-137%	2	30%	
beta-BHC	38.6	---	2.00	ug/kg wet	1	50.0	---	77	50-136%	7	30%	
delta-BHC	51.8	---	2.00	ug/kg wet	1	50.0	---	104	47-139%	3	30%	
gamma-BHC (Lindane)	45.2	---	2.00	ug/kg wet	1	50.0	---	90	49-135%	4	30%	
cis-Chlordane	47.7	---	2.00	ug/kg wet	1	50.0	---	95	54-133%	7	30%	
trans-Chlordane	48.4	---	2.00	ug/kg wet	1	50.0	---	97	53-135%	3	30%	
4,4'-DDD	60.1	---	2.00	ug/kg wet	1	50.0	---	120	56-139%	0.2	30%	
4,4'-DDE	53.7	---	2.00	ug/kg wet	1	50.0	---	107	56-134%	2	30%	
4,4'-DDT	61.6	---	2.00	ug/kg wet	1	50.0	---	123	50-141%	2	30%	
Dieldrin	50.0	---	2.00	ug/kg wet	1	50.0	---	100	56-136%	5	30%	
Endosulfan I	47.4	---	2.00	ug/kg wet	1	50.0	---	95	53-132%	6	30%	
Endosulfan II	52.5	---	2.00	ug/kg wet	1	50.0	---	105	53-134%	4	30%	
Endosulfan sulfate	56.4	---	2.00	ug/kg wet	1	50.0	---	113	55-136%	1	30%	
Endrin	53.7	---	2.00	ug/kg wet	1	50.0	---	107	57-140%	5	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I1010 - EPA 3546/3640A (GPC)							**Sediment**					
LCS Dup (22I1010-BSD1)			Prepared: 09/28/22 11:54		Analyzed: 10/03/22 18:19							**C-05, Q-19**
Endrin Aldehyde	47.8	---	2.00	ug/kg wet	1	50.0	---	96	35-137%	5	30%	
Endrin ketone	54.3	---	2.00	ug/kg wet	1	50.0	---	109	55-136%	4	30%	
Heptachlor	44.0	---	2.00	ug/kg wet	1	50.0	---	88	47-136%	2	30%	
Heptachlor epoxide	47.1	---	2.00	ug/kg wet	1	50.0	---	94	52-136%	7	30%	
Methoxychlor	66.4	---	6.00	ug/kg wet	1	50.0	---	133	52-143%	2	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 80 %*		*Limits: 42-129 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*103 %*		*55-130 %*				*"*			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0931 - EPA 3546							**Sediment**					
Blank (22I0931-BLK1)			Prepared: 09/28/22 10:35 Analyzed: 09/28/22 17:03									
EPA 8270E OPPs												
Azinphos methyl (Guthion)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Chlorpyrifos	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Coumaphos	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Demeton O	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Demeton S	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Diazinon	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Dichlorvos	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Dimethoate	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Disulfoton	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
EPN	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Ethoprop	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Fensulfothion	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Fenthion	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Malathion	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Merphos	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Methyl parathion	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Mevinphos (Phosdrin)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Monocrotophos	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Naled (Dibrom)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Parathion, ethyl	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Phorate	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Ronnel (Fenchlorphos)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Sulfotep	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Sulprofos (Bolstar)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
TEPP	ND	---	182	ug/kg wet	1	---	---	---	---	---	---	
Tetrachlorvinphos (Rabon)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Tokuthion (Prothiofos)	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Trichloronate	ND	---	45.5	ug/kg wet	1	---	---	---	---	---	---	
Surr: Tributyl phosphate (Surr)			*Recovery: 74 %*	*Limits: 10-136 %*			*Dilution: 1x*					
Triphenyl phosphate (Surr)			*74 %*	*34-121 %*			*"*					
LCS (22I0931-BS1)			Prepared: 09/28/22 10:35 Analyzed: 09/28/22 17:39									
EPA 8270E OPPs												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

APEX LABORATORIES

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0931 - EPA 3546							**Sediment**					
LCS (22I0931-BS1)			Prepared: 09/28/22 10:35		Analyzed: 09/28/22 17:39							
Azinphos methyl (Guthion)	414	---	50.0	ug/kg wet	1	400	---	103	38-156%	---	---	
Chlorpyrifos	370	---	50.0	ug/kg wet	1	400	---	93	47-140%	---	---	
Coumaphos	414	---	50.0	ug/kg wet	1	400	---	103	37-160%	---	---	
Demeton O	176	---	50.0	ug/kg wet	1	184	---	95	66-127%	---	---	
Demeton S	163	---	50.0	ug/kg wet	1	194	---	84	70-121%	---	---	
Diazinon	393	---	50.0	ug/kg wet	1	400	---	98	42-134%	---	---	
Dichlorvos	412	---	50.0	ug/kg wet	1	400	---	103	39-142%	---	---	
Dimethoate	379	---	50.0	ug/kg wet	1	400	---	95	16-139%	---	---	
Disulfoton	357	---	50.0	ug/kg wet	1	400	---	89	28-145%	---	---	
EPN	456	---	50.0	ug/kg wet	1	400	---	114	44-137%	---	---	
Ethoprop	389	---	50.0	ug/kg wet	1	400	---	97	47-128%	---	---	
Fensulfothion	485	---	50.0	ug/kg wet	1	400	---	121	27-147%	---	---	Q-41
Fenthion	417	---	50.0	ug/kg wet	1	400	---	104	44-134%	---	---	
Malathion	395	---	50.0	ug/kg wet	1	400	---	99	46-137%	---	---	
Merphos	400	---	50.0	ug/kg wet	1	400	---	100	66-131%	---	---	
Methyl parathion	411	---	50.0	ug/kg wet	1	400	---	103	49-138%	---	---	
Mevinphos (Phosdrin)	425	---	50.0	ug/kg wet	1	400	---	106	12-176%	---	---	
Monocrotophos	392	---	50.0	ug/kg wet	1	400	---	98	10-153%	---	---	
Naled (Dibrom)	364	---	50.0	ug/kg wet	1	400	---	91	10-174%	---	---	
Parathion, ethyl	410	---	50.0	ug/kg wet	1	400	---	103	50-139%	---	---	
Phorate	391	---	50.0	ug/kg wet	1	400	---	98	23-142%	---	---	
Ronnel (Fenchlorphos)	410	---	50.0	ug/kg wet	1	400	---	103	45-138%	---	---	
Sulfotep	433	---	50.0	ug/kg wet	1	400	---	108	52-126%	---	---	Q-41
Sulprofos (Bolstar)	358	---	50.0	ug/kg wet	1	400	---	90	48-139%	---	---	
TEPP	438	---	200	ug/kg wet	1	400	---	110	16-126%	---	---	
Tetrachlorvinphos (Rabon)	411	---	50.0	ug/kg wet	1	400	---	103	54-129%	---	---	
Tokuthion (Prothiofos)	396	---	50.0	ug/kg wet	1	400	---	99	45-136%	---	---	
Trichloronate	359	---	50.0	ug/kg wet	1	400	---	90	37-140%	---	---	
Surr: Tributyl phosphate (Surr)			*Recovery: 83 %*		*Limits: 10-136 %*			*Dilution: 1x*				
Triphenyl phosphate (Surr)			*77 %*		*34-121 %*			*"*				
LCS Dup (22I0931-BSD1)			Prepared: 09/28/22 11:54		Analyzed: 09/28/22 18:16							**Q-19**
EPA 8270E OPPs												
Azinphos methyl (Guthion)	397	---	50.0	ug/kg wet	1	400	---	99	38-156%	4	30%	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

APEX LABORATORIES

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0931 - EPA 3546							**Sediment**					
LCS Dup (22I0931-BSD1)			Prepared: 09/28/22 11:54		Analyzed: 09/28/22 18:16							**Q-19**
Chlorpyrifos	393	---	50.0	ug/kg wet	1	400	---	98	47-140%	6	30%	
Coumaphos	400	---	50.0	ug/kg wet	1	400	---	100	37-160%	4	30%	
Demeton O	170	---	50.0	ug/kg wet	1	184	---	92	66-127%	3	30%	
Demeton S	168	---	50.0	ug/kg wet	1	194	---	86	70-121%	3	30%	
Diazinon	422	---	50.0	ug/kg wet	1	400	---	105	42-134%	7	30%	
Dichlorvos	433	---	50.0	ug/kg wet	1	400	---	108	39-142%	5	30%	
Dimethoate	374	---	50.0	ug/kg wet	1	400	---	93	16-139%	2	30%	
Disulfoton	376	---	50.0	ug/kg wet	1	400	---	94	28-145%	5	30%	
EPN	444	---	50.0	ug/kg wet	1	400	---	111	44-137%	3	30%	
Ethoprop	398	---	50.0	ug/kg wet	1	400	---	100	47-128%	2	30%	
Fensulfothion	453	---	50.0	ug/kg wet	1	400	---	113	27-147%	7	30%	Q-41
Fenthion	436	---	50.0	ug/kg wet	1	400	---	109	44-134%	5	30%	
Malathion	404	---	50.0	ug/kg wet	1	400	---	101	46-137%	2	30%	
Merphos	384	---	50.0	ug/kg wet	1	400	---	96	66-131%	4	30%	
Methyl parathion	414	---	50.0	ug/kg wet	1	400	---	104	49-138%	0.8	30%	
Mevinphos (Phosdrin)	421	---	50.0	ug/kg wet	1	400	---	105	12-176%	0.9	30%	
Monocrotophos	363	---	50.0	ug/kg wet	1	400	---	91	10-153%	8	30%	
Naled (Dibrom)	339	---	50.0	ug/kg wet	1	400	---	85	10-174%	7	30%	
Parathion, ethyl	406	---	50.0	ug/kg wet	1	400	---	101	50-139%	1	30%	
Phorate	389	---	50.0	ug/kg wet	1	400	---	97	23-142%	0.7	30%	
Ronnel (Fenchlorphos)	425	---	50.0	ug/kg wet	1	400	---	106	45-138%	4	30%	
Sulfotep	444	---	50.0	ug/kg wet	1	400	---	111	52-126%	2	30%	Q-41
Sulprofos (Bolstar)	378	---	50.0	ug/kg wet	1	400	---	95	48-139%	5	30%	
TEPP	409	---	200	ug/kg wet	1	400	---	102	16-126%	7	30%	
Tetrachlorvinphos (Rabon)	406	---	50.0	ug/kg wet	1	400	---	102	54-129%	1	30%	
Tokuthion (Prothiofos)	404	---	50.0	ug/kg wet	1	400	---	101	45-136%	2	30%	
Trichloronate	372	---	50.0	ug/kg wet	1	400	---	93	37-140%	3	30%	
Surr: Tributyl phosphate (Surr)			*Recovery: 79 %*		*Limits: 10-136 %*			*Dilution: 1x*				
Triphenyl phosphate (Surr)			*76 %*		*34-121 %*			*"*				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22I0892 - Total Solids (Dry Weight)							**Soil**					
Duplicate (22I0892-DUP1)			Prepared: 09/27/22 12:54		Analyzed: 09/28/22 06:02							
QC Source Sample: Non-SDG (A2I0322-08)												
% Solids	**82.3**	---	1.00	%	1	---	86.0	---	---	4	10%	
Duplicate (22I0892-DUP2)			Prepared: 09/27/22 12:54		Analyzed: 09/28/22 06:02							**PRO**
QC Source Sample: Non-SDG (A2I0570-02)												
% Solids	**98.3**	---	1.00	%	1	---	98.2	---	---	0.04	10%	
Duplicate (22I0892-DUP3)			Prepared: 09/27/22 12:54		Analyzed: 09/28/22 06:02							**PRO**
QC Source Sample: Non-SDG (A2I0570-04)												
% Solids	**98.1**	---	1.00	%	1	---	98.1	---	---	0.04	10%	
Duplicate (22I0892-DUP4)			Prepared: 09/27/22 12:54		Analyzed: 09/28/22 06:02							**PRO**
QC Source Sample: Non-SDG (A2I0570-06)												
% Solids	**97.2**	---	1.00	%	1	---	97.2	---	---	0.03	10%	
Duplicate (22I0892-DUP5)			Prepared: 09/27/22 19:09		Analyzed: 09/28/22 06:02							
QC Source Sample: Non-SDG (A2I0816-01)												
% Solids	**71.9**	---	1.00	%	1	---	73.1	---	---	2	10%	
Duplicate (22I0892-DUP6)			Prepared: 09/27/22 19:09		Analyzed: 09/28/22 06:02							
QC Source Sample: Non-SDG (A2I0816-02)												
% Solids	**74.0**	---	1.00	%	1	---	74.0	---	---	0.07	10%	

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22I1010							
A2I0798-01RE1	Sediment	EPA 8081B	09/14/22 12:00	09/28/22 10:33	10.01g/10mL	10g/5mL	2.00

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22I0931							
A2I0798-01	Sediment	EPA 8270E OPPs	09/14/22 12:00	09/28/22 10:35	10.14g/5mL	10g/5mL	0.99
A2I0798-01RE1	Sediment	EPA 8270E OPPs	09/14/22 12:00	09/28/22 10:35	10.14g/5mL	10g/5mL	0.99

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22I0892							
A2I0798-01	Sediment	EPA 8000D	09/14/22 12:00	09/27/22 12:54			NA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

QUALIFIER DEFINITIONS

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

Apex Laboratories

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
PRO	Sample has undergone sample processing prior to extraction and analysis.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
RR-1	Not Reported - Overdiluted. Sample will be Rerun.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

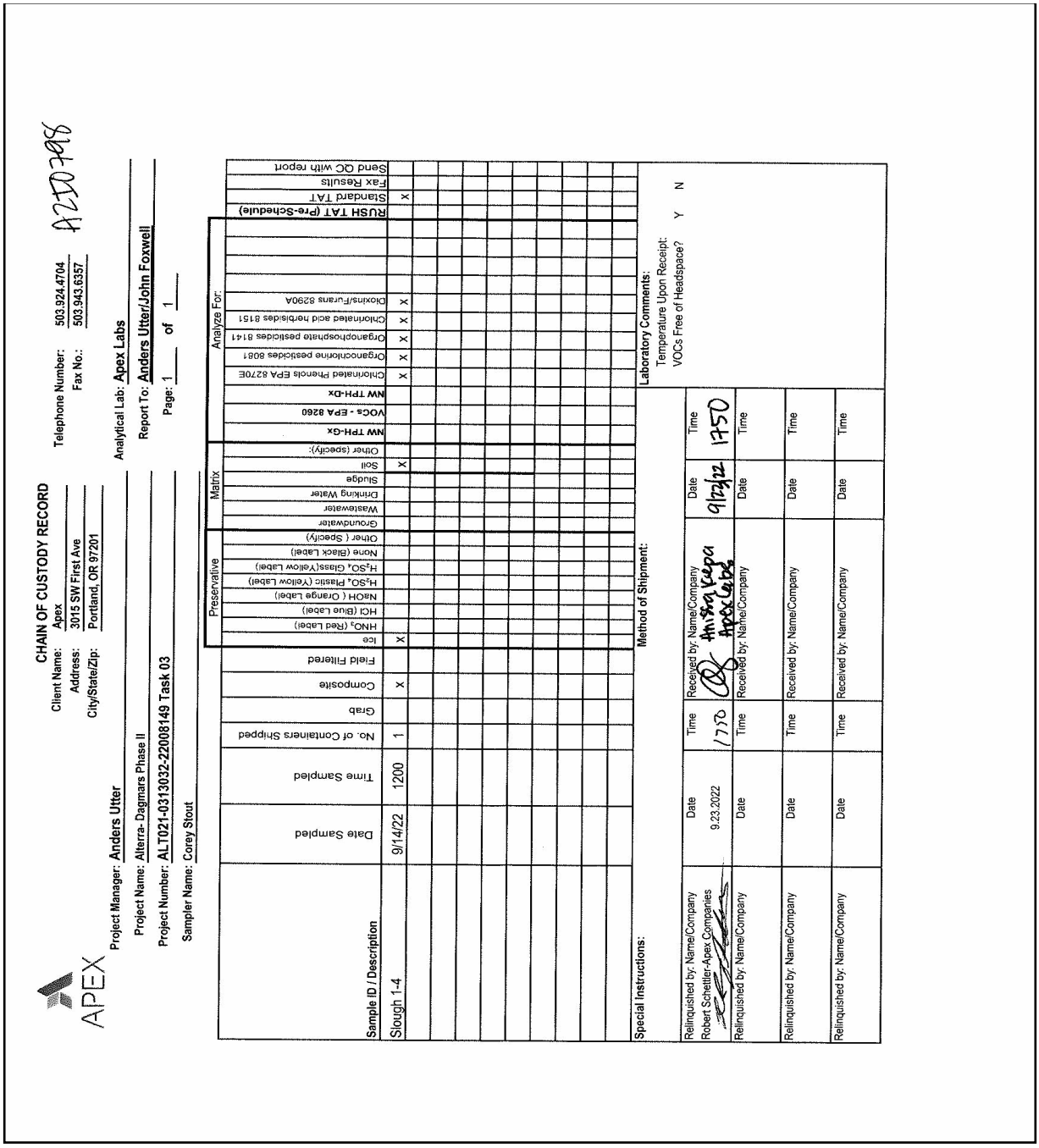
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**



CHAIN OF CUSTODY RECORD

Client Name: Apex
Address: 3015 SW First Ave
City/State/Zip: Portland, OR 97201
Project Manager: Anders Utter
Project Name: Alterra- Dagmars Phase II
Project Number: ALT021-0313032-22008149 Task 03
Sampler Name: Corey Stout

Telephone Number: 503.924.4704
Fax No.: 503.943.6357
Analytical Lab: Apex Labs
Report To: Anders Utter/John Foxwell
Page: 1 of 1

A2I0798

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: NW TPH-Gx	VOCs - EPA 8260	NW TPH-Dx	Chlorinated Phenols EPA 8270E	Organochlorine pesticides 8081	Organophosphate pesticides 8141	Chlorinated acid herbicides 8151	Dioxins/Furans 8290A	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
Slough 1-4	9/14/22	1200	1		X		X												X					X	X	X	X	X		X		

Special Instructions:

Method of Shipment:

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N

Relinquished by: Name/Company	Date	Time	Received by: Name/Company	Date	Time
Robert Schettler-Apex Companies	9.23.2022	1750	Anna Kespa Apex Labs	9/23/22	1750
Relinquished by: Name/Company	Date	Time	Received by: Name/Company	Date	Time
Relinquished by: Name/Company	Date	Time	Received by: Name/Company	Date	Time
Relinquished by: Name/Company	Date	Time	Received by: Name/Company	Date	Time

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Apex Companies, LLC	Project: **Alterra - Dagmars Phase II**	
3015 SW First Avenue	Project Number: **ALT021-0313032-22008149**	**Report ID:**
Portland, OR 97201	Project Manager: **Anders Utter**	**A2I0798 - 10 07 22 1627**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies Element WO#: A2 I0 7998

Project/Project #: Alterra - Dagmars Phase II # ALT021-0313032-22008149 TASK 03

Delivery Info:

Date/time received: 9/23/22 @ 1750 By: AKK

Delivered by: Apex____Client X ESS____FedEx____UPS____Swift____Senvoy ___SDS___Other_____

Cooler Inspection Date/time inspected: 9/23/22 @ 1755 By: AKK

Chain of Custody included? Yes X No _____ Custody seals? Yes_____ No X

Signed/dated by client? Yes X No _____

Signed/dated by Apex? Yes Y No _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.0						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

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

Green dots applied to out of temperature samples? Yes (No)

Out of temperature samples form initiated? Yes/(No)

Sample Inspection: Date/time inspected: 9/23/22 @ 1928 By: AKK

All samples intact? Yes X No ___ Comments:_____

Bottle labels/COCs agree? Yes ___ No X Comments: No date/time on container. ID reads 7694-10-13 comp received 9/23/22 L153 7694-10-13 comp

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: Limited volume – Jar received ~'13 Full

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments_____

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X

Comments: _____

Additional information: Subsampled By: AKK Witnessed By: DJS

Labeled by: AKK Witness: DJS Cooler Inspected by: AKK

Form Y-003 R-00

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-111332-1
Client Project/Site: A2I0798

For:
Apex Laboratories LLC
6700 SW Sandburg St.
Tigard, Oregon 97223

Attn: Darrell Auvil

Authorized for release by:
10/6/2022 12:30:19 PM

Lori Thompson, Project Manager I
(657)212-3035
Lori.Thompson@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Job ID: 570-111332-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-111332-1

Comments
No additional comments.

Receipt
The sample was received on 9/28/2022 9:45 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC Semi VOA
Method 8151A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-268213 and analytical batch 570-270040 recovered outside control limits for the following analytes: 2,4,5-T and MCPA. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8151A: The laboratory control sample (LCS) for preparation batch 570-268213 and analytical batch 570-270040 recovered outside control limits for the following analytes: Dinoseb and Dalapon. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 8151A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for 8151A preparation/analysis: Slough 1-4 (570-111332-1). A limited amount was provided and shared with moisture for dry weight correction.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Client Sample ID: Slough 1-4

Lab Sample ID: 570-111332-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: Slough 1-4
Date Collected: 09/14/22 12:00
Date Received: 09/28/22 09:45

Lab Sample ID: 570-111332-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	*+	54	20	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4,5-TP (Silvex)	ND		54	40	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4-D	ND		540	260	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4-DB	ND		540	540	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dalapon	ND	*+	1300	390	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dicamba	ND		54	25	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dichlorprop	ND		540	260	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dinoseb	ND	*+	540	320	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
MCPA	ND	*+	54000	26000	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
MCPP	ND		54000	35000	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*116*		*20 - 163*	*09/28/22 16:44*	*10/05/22 19:43*	*1*

Surrogate Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCPAA1 (20-163)							
570-111332-1	Slough 1-4	116							
LCS 570-268213/2-A	Lab Control Sample	93							
LCSD 570-268213/3-A	Lab Control Sample Dup	87							
MB 570-268213/1-A	Method Blank	57							

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-268213/1-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.7	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4,5-TP (Silvex)	ND		10	7.5	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4-D	ND		100	49	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4-DB	ND		100	100	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dalapon	ND		250	72	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dicamba	ND		10	4.7	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dichlorprop	ND		100	49	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dinoseb	ND		100	59	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
MCPA	ND		10000	4900	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
MCPP	ND		10000	6600	ug/Kg		09/28/22 16:44	10/05/22 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*57*		*20 - 163*	*09/28/22 16:44*	*10/05/22 16:16*	*1*

Lab Sample ID: LCS 570-268213/2-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	20.0	36.43	*+	ug/Kg		182	36 - 125
2,4,5-TP (Silvex)	20.0	21.34		ug/Kg		107	31 - 143
2,4-D	200	320.2		ug/Kg		160	10 - 177
2,4-DB	200	296.7		ug/Kg		148	35 - 180
Dalapon	500	786.0	*+	ug/Kg		157	27 - 120
Dicamba	20.0	24.95		ug/Kg		125	17 - 163
Dichlorprop	200	179.2		ug/Kg		90	37 - 123
Dinoseb	100	227.7	*+	ug/Kg		228	10 - 180
MCPA	20000	44920	*+	ug/Kg		225	22 - 144
MCPP	20000	31770		ug/Kg		159	30 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*20 - 163*

Lab Sample ID: LCSD 570-268213/3-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	20.0	27.11	*+	ug/Kg		136	36 - 125	29	35
2,4,5-TP (Silvex)	20.0	19.90		ug/Kg		100	31 - 143	7	31
2,4-D	200	294.1		ug/Kg		147	10 - 177	8	40
2,4-DB	200	265.5		ug/Kg		133	35 - 180	11	40
Dalapon	500	580.2		ug/Kg		116	27 - 120	30	39
Dicamba	20.0	21.79		ug/Kg		109	17 - 163	14	29
Dichlorprop	200	177.1		ug/Kg		89	37 - 123	1	28
Dinoseb	100	177.0		ug/Kg		177	10 - 180	25	40
MCPA	20000	43280	*+	ug/Kg		216	22 - 144	4	35
MCPP	20000	30670		ug/Kg		153	30 - 162	4	37

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	87		20 - 163

QC Association Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

GC Semi VOA

Prep Batch: 268213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111332-1	Slough 1-4	Total/NA	Solid	8151A	
MB 570-268213/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-268213/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-268213/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 270040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111332-1	Slough 1-4	Total/NA	Solid	8151A	268213
MB 570-268213/1-A	Method Blank	Total/NA	Solid	8151A	268213
LCS 570-268213/2-A	Lab Control Sample	Total/NA	Solid	8151A	268213
LCSD 570-268213/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	268213

Lab Chronicle

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Client Sample ID: Slough 1-4
Date Collected: 09/14/22 12:00
Date Received: 09/28/22 09:45

Lab Sample ID: 570-111332-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.02 g	5 mL	268213	09/28/22 16:44	PQS1	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	270040	10/05/22 19:43	UJ3K	EET CAL 4
	Instrument ID: GC41									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-23
Washington	State	C916-18	10-12-22

Method Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	EET CAL 4
8151A	Extraction (Herbicides)	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-111332-1	Slough 1-4	Solid	09/14/22 12:00	09/28/22 09:45

SUBCONTRACT ORDER

Apex Laboratories

09/27/22 **A2I0798**

Loc: 570
111332

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Eurofins_CalScience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone :(714) 895-5494
Fax: (714) 894-7501

AMC 9/27/22

No date/time on container - ID reads L153 7694

Sample Name: Slough 1-4 **Soil** **Sampled: 09/14/22 12:00** (A2I0798-01)

Analysis	Due	Expires	Comments
8151A Herbicides (SUB) *Containers Supplied.* (B)4 oz Glass Jar	10/06/22 17 00	09/28/22 12:00	Exp 9/28--Limited volume

Standard TAT

WATCH HOLD TIME

570-111332 Chain of Custody

Released By	Date	Received By	Date
	9/27/22	Fed Ex (Shipper)	
Fed Ex (Shipper)			
Released By	Date	Received By	Date
			9/28/22 0945

34/37 1R Sc11

Login Sample Receipt Checklist

Client: Apex Laboratories LLC

Job Number: 570-111332-1

Login Number: 111332
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-111332-1
Client Project/Site: A2I0798

For:
Apex Laboratories LLC
6700 SW Sandburg St.
Tigard, Oregon 97223

Attn: Darrell Auvil

Authorized for release by:
10/6/2022 12:30:19 PM

Lori Thompson, Project Manager I
(657)212-3035
Lori.Thompson@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Job ID: 570-111332-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-111332-1

Comments
No additional comments.

Receipt
The sample was received on 9/28/2022 9:45 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC Semi VOA
Method 8151A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-268213 and analytical batch 570-270040 recovered outside control limits for the following analytes: 2,4,5-T and MCPA. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8151A: The laboratory control sample (LCS) for preparation batch 570-268213 and analytical batch 570-270040 recovered outside control limits for the following analytes: Dinoseb and Dalapon. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 8151A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for 8151A preparation/analysis: Slough 1-4 (570-111332-1). A limited amount was provided and shared with moisture for dry weight correction.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Client Sample ID: Slough 1-4

Lab Sample ID: 570-111332-1

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: Slough 1-4
Date Collected: 09/14/22 12:00
Date Received: 09/28/22 09:45

Lab Sample ID: 570-111332-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	*+	54	20	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4,5-TP (Silvex)	ND		54	40	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4-D	ND		540	260	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
2,4-DB	ND		540	540	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dalapon	ND	*+	1300	390	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dicamba	ND		54	25	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dichlorprop	ND		540	260	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
Dinoseb	ND	*+	540	320	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
MCPA	ND	*+	54000	26000	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1
MCPP	ND		54000	35000	ug/Kg	☼	09/28/22 16:44	10/05/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*116*		*20 - 163*	*09/28/22 16:44*	*10/05/22 19:43*	*1*

Surrogate Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**DCPAA1 (20-163)**
570-111332-1	Slough 1-4	116
LCS 570-268213/2-A	Lab Control Sample	93
LCSD 570-268213/3-A	Lab Control Sample Dup	87
MB 570-268213/1-A	Method Blank	57

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

QC Sample Results

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-268213/1-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.7	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4,5-TP (Silvex)	ND		10	7.5	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4-D	ND		100	49	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
2,4-DB	ND		100	100	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dalapon	ND		250	72	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dicamba	ND		10	4.7	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dichlorprop	ND		100	49	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
Dinoseb	ND		100	59	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
MCPA	ND		10000	4900	ug/Kg		09/28/22 16:44	10/05/22 16:16	1
MCPP	ND		10000	6600	ug/Kg		09/28/22 16:44	10/05/22 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*57*		*20 - 163*	*09/28/22 16:44*	*10/05/22 16:16*	*1*

Lab Sample ID: LCS 570-268213/2-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	20.0	36.43	*+	ug/Kg		182	36 - 125
2,4,5-TP (Silvex)	20.0	21.34		ug/Kg		107	31 - 143
2,4-D	200	320.2		ug/Kg		160	10 - 177
2,4-DB	200	296.7		ug/Kg		148	35 - 180
Dalapon	500	786.0	*+	ug/Kg		157	27 - 120
Dicamba	20.0	24.95		ug/Kg		125	17 - 163
Dichlorprop	200	179.2		ug/Kg		90	37 - 123
Dinoseb	100	227.7	*+	ug/Kg		228	10 - 180
MCPA	20000	44920	*+	ug/Kg		225	22 - 144
MCPP	20000	31770		ug/Kg		159	30 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*20 - 163*

Lab Sample ID: LCSD 570-268213/3-A
Matrix: Solid
Analysis Batch: 270040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	20.0	27.11	*+	ug/Kg		136	36 - 125	29	35
2,4,5-TP (Silvex)	20.0	19.90		ug/Kg		100	31 - 143	7	31
2,4-D	200	294.1		ug/Kg		147	10 - 177	8	40
2,4-DB	200	265.5		ug/Kg		133	35 - 180	11	40
Dalapon	500	580.2		ug/Kg		116	27 - 120	30	39
Dicamba	20.0	21.79		ug/Kg		109	17 - 163	14	29
Dichlorprop	200	177.1		ug/Kg		89	37 - 123	1	28
Dinoseb	100	177.0		ug/Kg		177	10 - 180	25	40
MCPA	20000	43280	*+	ug/Kg		216	22 - 144	4	35
MCPP	20000	30670		ug/Kg		153	30 - 162	4	37

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	87		20 - 163

QC Association Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

GC Semi VOA

Prep Batch: 268213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111332-1	Slough 1-4	Total/NA	Solid	8151A	
MB 570-268213/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-268213/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-268213/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 270040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-111332-1	Slough 1-4	Total/NA	Solid	8151A	268213
MB 570-268213/1-A	Method Blank	Total/NA	Solid	8151A	268213
LCS 570-268213/2-A	Lab Control Sample	Total/NA	Solid	8151A	268213
LCSD 570-268213/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	268213

Lab Chronicle

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Client Sample ID: Slough 1-4
Date Collected: 09/14/22 12:00
Date Received: 09/28/22 09:45

Lab Sample ID: 570-111332-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			25.02 g	5 mL	268213	09/28/22 16:44	PQS1	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	270040	10/05/22 19:43	UJ3K	EET CAL 4
	Instrument ID: GC41									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-23
Washington	State	C916-18	10-12-22

Method Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	EET CAL 4
8151A	Extraction (Herbicides)	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Apex Laboratories LLC
Project/Site: A2I0798

Job ID: 570-111332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-111332-1	Slough 1-4	Solid	09/14/22 12:00	09/28/22 09:45

SUBCONTRACT ORDER

Apex Laboratories

09/27/22 **A2I0798**

Loc: 570
111332

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Eurofins_CalScience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone :(714) 895-5494
Fax: (714) 894-7501

AMC 9/27/22

No date/time on container - ID reads L153 7694

Sample Name: Slough 1-4 **Soil** **Sampled: 09/14/22 12:00** (A2I0798-01)

Analysis	Due	Expires	Comments
8151A Herbicides (SUB) *Containers Supplied.* (B)4 oz Glass Jar	10/06/22 17 00	09/28/22 12:00	Exp 9/28--Limited volume

Standard TAT

WATCH HOLD TIME

570-111332 Chain of Custody

Released By	Date	Received By	Date
	9/27/22	Fed Ex (Shipper)	
Fed Ex (Shipper)			
Released By	Date	Received By	Date
			9/28/22 0945

34/37 1R Sc11

Login Sample Receipt Checklist

Client: Apex Laboratories LLC

Job Number: 570-111332-1

Login Number: 111332
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

October 17, 2022

Apex Companies, LLC - Portland, OR

Sample Delivery Group:	L1537694
Samples Received:	09/20/2022
Project Number:	
Description:	Dagmars Marina LSI Sampling ALT 021-0313032-22008149
Site:	DAGMARS MARINA
Report To:	Anders Utter
	801 NW 42nd St
	Ste 204
	Seattle, WA 98107

Entire Report Reviewed By:

Brian Ford

Project Manager

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

OUTFALL-1 L1537694-01 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 09:50 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:05	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1931555	5	09/24/22 16:16	09/26/22 13:05	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 18:01	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/26/22 23:16	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 17:28	AMG	Mt. Juliet, TN

OUTFALL-2 L1537694-02 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 10:10 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:33	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930701	5	09/25/22 15:39	10/01/22 14:32	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 18:39	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/26/22 23:28	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 16:19	AMG	Mt. Juliet, TN

OUTFALL-3 L1537694-03 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 10:25 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:35	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930689	5	09/27/22 18:08	09/28/22 18:47	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 18:51	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/26/22 23:41	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 16:36	AMG	Mt. Juliet, TN

OUTFALL-4 L1537694-04 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 10:40 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:38	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930689	5	09/27/22 18:08	09/28/22 18:50	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 19:03	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/26/22 23:54	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 16:54	AMG	Mt. Juliet, TN

OUTFALL-5 L1537694-05 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 11:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:45	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930701	5	09/25/22 15:39	10/01/22 14:35	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 19:16	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/27/22 00:06	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 17:46	AMG	Mt. Juliet, TN

OUTFALL-9 L1537694-06 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 09:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931306	1	09/26/22 11:27	09/27/22 13:48	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930701	5	09/25/22 15:39	10/01/22 14:39	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/28/22 14:13	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/27/22 00:31	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 19:14	ADF	Mt. Juliet, TN

OUTFALL-11 L1537694-07 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 15:20 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 12:47	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 22:10	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 19:28	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932054	1	09/26/22 08:30	09/27/22 00:19	KLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 18:03	AMG	Mt. Juliet, TN

OUTFALL-12 L1537694-08 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 15:50 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 11:54	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 22:13	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932771	1	09/27/22 09:28	09/27/22 19:41	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 21:53	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931682	1	09/24/22 03:35	09/24/22 18:21	AMG	Mt. Juliet, TN

OUTFALL-13 L1537694-09 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 16:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 12:49	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 22:17	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 15:07	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 12:30	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931683	1	09/24/22 03:38	09/24/22 17:13	JRM	Mt. Juliet, TN

SLOUGH-1 L1537694-10 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 12:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929910	1	09/22/22 11:41	09/22/22 12:05	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 12:52	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 19:33	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 14:55	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 12:39	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931683	1	09/24/22 03:38	09/24/22 15:46	JRM	Mt. Juliet, TN

SLOUGH-2 L1537694-11 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 12:15 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 12:55	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 22:20	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:46	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 12:49	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931683	1	09/24/22 03:38	09/24/22 13:09	JRM	Mt. Juliet, TN

SLOUGH-3 L1537694-12 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 12:30 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931308	1	09/26/22 11:23	09/27/22 12:57	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930435	5	09/22/22 17:19	09/26/22 22:23	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 14:55	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 12:58	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931683	1	09/24/22 03:38	09/24/22 13:26	JRM	Mt. Juliet, TN

SLOUGH-4 L1537694-13 Solid

Collected by: Corey Stout | Collected date/time: 09/14/22 12:45 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931307	1	09/27/22 08:23	09/28/22 13:07	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930689	.5	09/27/22 18:08	09/28/22 18:54	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930689	5	09/27/22 18:08	09/28/22 20:08	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:34	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1932422	1	09/27/22 12:30	09/28/22 13:08	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1931683	1	09/24/22 03:38	09/24/22 16:03	JRM	Mt. Juliet, TN

MW-1-10' L1537694-14 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 12:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1931307	1	09/27/22 08:23	09/28/22 13:10	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1930689	5	09/27/22 18:08	09/28/22 18:57	LD	Mt. Juliet, TN

SHOP-1-2.5' L1537694-15 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 13:30 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 11:56	JAS	Mt. Juliet, TN

SHOP-1-5' L1537694-16 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 13:45 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:09	JAS	Mt. Juliet, TN

SHOP-2-2.5' L1537694-17 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 14:10 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1939802	1	10/11/22 08:19	10/12/22 08:39	SRT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1942959	5	10/15/22 01:16	10/16/22 11:16	SJM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	100	09/27/22 05:56	09/27/22 20:18	JAS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	20	09/27/22 05:56	09/27/22 15:32	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1938025	1	10/06/22 04:20	10/07/22 23:42	KLA	Mt. Juliet, TN

SHOP-2-5' L1537694-18 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 14:20 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 11:32	JAS	Mt. Juliet, TN

AST-1-5' L1537694-19 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 15:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25	09/15/22 15:00	09/23/22 09:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:21	JAS	Mt. Juliet, TN

AST-1-10' L1537694-20 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 15:10 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929912	1	09/22/22 12:09	09/22/22 12:45	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25	09/15/22 15:10	09/23/22 09:55	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:58	JAS	Mt. Juliet, TN

AST-2-3' L1537694-21 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 15:30 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25	09/15/22 15:30	09/23/22 10:18	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	5	09/27/22 05:56	09/27/22 15:32	JAS	Mt. Juliet, TN

AST-2-10' L1537694-22 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 15:40 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25	09/15/22 15:40	09/23/22 10:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 11:56	JAS	Mt. Juliet, TN

AST-3-5' L1537694-23 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 14:30 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25	09/15/22 14:30	09/23/22 11:03	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 11:44	JAS	Mt. Juliet, TN

AST-3-10' L1537694-24 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 14:40 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1931051	25.5	09/15/22 14:40	09/23/22 11:25	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 15:07	JAS	Mt. Juliet, TN

BARN-1-3.5' L1537694-25 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 16:05 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:46	JAS	Mt. Juliet, TN

VAULT-1-7' L1537694-26 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 17:00 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:58	JAS	Mt. Juliet, TN

VAULT-1-15' L1537694-27 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 17:10 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 15:20	JAS	Mt. Juliet, TN

VAULT-2-7' L1537694-28 Solid

Collected by: Corey Stout | Collected date/time: 09/15/22 16:30 | Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 12:09	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

VAULT-2-15' L1537694-29 Solid

Collected by: Corey Stout
Collected date/time: 09/15/22 16:40
Received date/time: 09/20/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1929914	1	09/22/22 12:54	09/22/22 13:08	CMK	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1932033	1	09/27/22 05:56	09/27/22 15:20	JAS	Mt. Juliet, TN

CASE NARRATIVE

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

Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	50.7		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0664	J J5 O1	0.0355	0.0789	1	09/27/2022 13:05	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	10.6		0.197	1.97	5	09/26/2022 13:05	WG1931555
Barium	35.0		0.300	4.93	5	09/26/2022 13:05	WG1931555
Cadmium	U		0.169	1.97	5	09/26/2022 13:05	WG1931555
Chromium	47.8		0.584	9.86	5	09/26/2022 13:05	WG1931555
Copper	41.1		0.260	9.86	5	09/26/2022 13:05	WG1931555
Lead	6.41		0.195	3.95	5	09/26/2022 13:05	WG1931555
Nickel	45.5		0.389	4.93	5	09/26/2022 13:05	WG1931555
Selenium	0.479	J	0.355	4.93	5	09/26/2022 13:05	WG1931555
Silver	U		0.171	0.986	5	09/26/2022 13:05	WG1931555
Zinc	61.6		1.46	49.3	5	09/26/2022 13:05	WG1931555

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U	J3	2.62	7.89	1	09/27/2022 18:01	WG1932771
Residual Range Organics (RRO)	12.0	J	6.57	19.7	1	09/27/2022 18:01	WG1932771
(S) o-Terphenyl	*38.5*			*18.0-148*		*09/27/2022 18:01*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0233	0.0671	1	09/26/2022 23:16	WG1932054
PCB 1221	U		0.0233	0.0671	1	09/26/2022 23:16	WG1932054
PCB 1232	U		0.0233	0.0671	1	09/26/2022 23:16	WG1932054
PCB 1242	U		0.0233	0.0671	1	09/26/2022 23:16	WG1932054
PCB 1248	U		0.0146	0.0335	1	09/26/2022 23:16	WG1932054
PCB 1254	U		0.0146	0.0335	1	09/26/2022 23:16	WG1932054
PCB 1260	U		0.0146	0.0335	1	09/26/2022 23:16	WG1932054
(S) Decachlorobiphenyl	*77.3*			*10.0-135*		*09/26/2022 23:16*	WG1932054
(S) Tetrachloro-m-xylene	*93.7*			*10.0-139*		*09/26/2022 23:16*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00454	0.0118	1	09/24/2022 17:28	WG1931682
Acenaphthene	U		0.00412	0.0118	1	09/24/2022 17:28	WG1931682
Acenaphthylene	U		0.00426	0.0118	1	09/24/2022 17:28	WG1931682
Benzo(a)anthracene	U		0.00341	0.0118	1	09/24/2022 17:28	WG1931682
Benzo(a)pyrene	U		0.00353	0.0118	1	09/24/2022 17:28	WG1931682
Benzo(b)fluoranthene	U		0.00302	0.0118	1	09/24/2022 17:28	WG1931682
Benzo(g,h,i)perylene	U		0.00349	0.0118	1	09/24/2022 17:28	WG1931682
Benzo(k)fluoranthene	U		0.00424	0.0118	1	09/24/2022 17:28	WG1931682
Chrysene	U		0.00458	0.0118	1	09/24/2022 17:28	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00339	0.0118	1	09/24/2022 17:28	WG1931682
Fluoranthene	U		0.00448	0.0118	1	09/24/2022 17:28	WG1931682
Fluorene	U		0.00404	0.0118	1	09/24/2022 17:28	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00357	0.0118	1	09/24/2022 17:28	WG1931682
Naphthalene	U		0.00805	0.0395	1	09/24/2022 17:28	WG1931682
Phenanthrene	U		0.00456	0.0118	1	09/24/2022 17:28	WG1931682
Pyrene	U		0.00395	0.0118	1	09/24/2022 17:28	WG1931682
1-Methylnaphthalene	U		0.00886	0.0395	1	09/24/2022 17:28	WG1931682
2-Methylnaphthalene	U		0.00842	0.0395	1	09/24/2022 17:28	WG1931682
2-Chloronaphthalene	U		0.00919	0.0395	1	09/24/2022 17:28	WG1931682
(S) Nitrobenzene-d5	*85.1*			*14.0-149*		*09/24/2022 17:28*	WG1931682
(S) 2-Fluorobiphenyl	*77.0*			*34.0-125*		*09/24/2022 17:28*	WG1931682
(S) p-Terphenyl-d14	*107*			*23.0-120*		*09/24/2022 17:28*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.3		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0326	0.0724	1	09/27/2022 13:33	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	18.1		0.181	1.81	5	10/01/2022 14:32	WG1930701
Barium	54.1		0.275	4.52	5	10/01/2022 14:32	WG1930701
Cadmium	U		0.155	1.81	5	10/01/2022 14:32	WG1930701
Chromium	68.3		0.536	9.05	5	10/01/2022 14:32	WG1930701
Copper	49.4		0.239	9.05	5	10/01/2022 14:32	WG1930701
Lead	8.28		0.179	3.62	5	10/01/2022 14:32	WG1930701
Nickel	62.5		0.356	4.52	5	10/01/2022 14:32	WG1930701
Selenium	0.953	J	0.326	4.52	5	10/01/2022 14:32	WG1930701
Silver	U		0.157	0.905	5	10/01/2022 14:32	WG1930701
Zinc	84.8		1.34	45.2	5	10/01/2022 14:32	WG1930701

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.41	7.24	1	09/27/2022 18:39	WG1932771
Residual Range Organics (RRO)	U		6.03	18.1	1	09/27/2022 18:39	WG1932771
(S) o-Terphenyl	*22.8*			*18.0-148*		*09/27/2022 18:39*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0214	0.0615	1	09/26/2022 23:28	WG1932054
PCB 1221	U		0.0214	0.0615	1	09/26/2022 23:28	WG1932054
PCB 1232	U		0.0214	0.0615	1	09/26/2022 23:28	WG1932054
PCB 1242	U		0.0214	0.0615	1	09/26/2022 23:28	WG1932054
PCB 1248	U		0.0134	0.0308	1	09/26/2022 23:28	WG1932054
PCB 1254	U		0.0134	0.0308	1	09/26/2022 23:28	WG1932054
PCB 1260	U		0.0134	0.0308	1	09/26/2022 23:28	WG1932054
(S) Decachlorobiphenyl	*78.3*			*10.0-135*		*09/26/2022 23:28*	WG1932054
(S) Tetrachloro-m-xylene	*95.4*			*10.0-139*		*09/26/2022 23:28*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00416	0.0109	1	09/24/2022 16:19	WG1931682
Acenaphthene	U		0.00378	0.0109	1	09/24/2022 16:19	WG1931682
Acenaphthylene	U		0.00391	0.0109	1	09/24/2022 16:19	WG1931682
Benzo(a)anthracene	U		0.00313	0.0109	1	09/24/2022 16:19	WG1931682
Benzo(a)pyrene	U		0.00324	0.0109	1	09/24/2022 16:19	WG1931682
Benzo(b)fluoranthene	U		0.00277	0.0109	1	09/24/2022 16:19	WG1931682
Benzo(g,h,i)perylene	U		0.00320	0.0109	1	09/24/2022 16:19	WG1931682
Benzo(k)fluoranthene	U		0.00389	0.0109	1	09/24/2022 16:19	WG1931682
Chrysene	U		0.00420	0.0109	1	09/24/2022 16:19	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00311	0.0109	1	09/24/2022 16:19	WG1931682
Fluoranthene	U		0.00411	0.0109	1	09/24/2022 16:19	WG1931682
Fluorene	U		0.00371	0.0109	1	09/24/2022 16:19	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00328	0.0109	1	09/24/2022 16:19	WG1931682
Naphthalene	U		0.00738	0.0362	1	09/24/2022 16:19	WG1931682
Phenanthrene	U		0.00418	0.0109	1	09/24/2022 16:19	WG1931682
Pyrene	U		0.00362	0.0109	1	09/24/2022 16:19	WG1931682
1-Methylnaphthalene	U		0.00812	0.0362	1	09/24/2022 16:19	WG1931682
2-Methylnaphthalene	U		0.00773	0.0362	1	09/24/2022 16:19	WG1931682
2-Chloronaphthalene	U		0.00843	0.0362	1	09/24/2022 16:19	WG1931682
(S) Nitrobenzene-d5	*89.4*			*14.0-149*		*09/24/2022 16:19*	WG1931682
(S) 2-Fluorobiphenyl	*82.1*			*34.0-125*		*09/24/2022 16:19*	WG1931682
(S) p-Terphenyl-d14	*120*			*23.0-120*		*09/24/2022 16:19*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.7		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0412	0.0914	1	09/27/2022 13:35	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.5		0.229	2.29	5	09/28/2022 18:47	WG1930689
Barium	66.5		0.347	5.72	5	09/28/2022 18:47	WG1930689
Cadmium	0.254	J	0.195	2.29	5	09/28/2022 18:47	WG1930689
Chromium	78.4		0.677	11.4	5	09/28/2022 18:47	WG1930689
Copper	60.9		0.302	11.4	5	09/28/2022 18:47	WG1930689
Lead	9.44		0.226	4.57	5	09/28/2022 18:47	WG1930689
Nickel	65.2		0.450	5.72	5	09/28/2022 18:47	WG1930689
Selenium	0.872	J	0.412	5.72	5	09/28/2022 18:47	WG1930689
Silver	U		0.198	1.14	5	09/28/2022 18:47	WG1930689
Zinc	91.1		1.69	57.2	5	09/28/2022 18:47	WG1930689

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		3.04	9.14	1	09/27/2022 18:51	WG1932771
Residual Range Organics (RRO)	U		7.61	22.9	1	09/27/2022 18:51	WG1932771
(S) o-Terphenyl	*52.6*			*18.0-148*		*09/27/2022 18:51*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0270	0.0777	1	09/26/2022 23:41	WG1932054
PCB 1221	U		0.0270	0.0777	1	09/26/2022 23:41	WG1932054
PCB 1232	U		0.0270	0.0777	1	09/26/2022 23:41	WG1932054
PCB 1242	U		0.0270	0.0777	1	09/26/2022 23:41	WG1932054
PCB 1248	U		0.0169	0.0389	1	09/26/2022 23:41	WG1932054
PCB 1254	U		0.0169	0.0389	1	09/26/2022 23:41	WG1932054
PCB 1260	U		0.0169	0.0389	1	09/26/2022 23:41	WG1932054
(S) Decachlorobiphenyl	*79.0*			*10.0-135*		*09/26/2022 23:41*	WG1932054
(S) Tetrachloro-m-xylene	*91.3*			*10.0-139*		*09/26/2022 23:41*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00526	0.0137	1	09/24/2022 16:36	WG1931682
Acenaphthene	U		0.00478	0.0137	1	09/24/2022 16:36	WG1931682
Acenaphthylene	U		0.00494	0.0137	1	09/24/2022 16:36	WG1931682
Benzo(a)anthracene	U		0.00396	0.0137	1	09/24/2022 16:36	WG1931682
Benzo(a)pyrene	U		0.00409	0.0137	1	09/24/2022 16:36	WG1931682
Benzo(b)fluoranthene	U		0.00350	0.0137	1	09/24/2022 16:36	WG1931682
Benzo(g,h,i)perylene	U		0.00405	0.0137	1	09/24/2022 16:36	WG1931682
Benzo(k)fluoranthene	U		0.00492	0.0137	1	09/24/2022 16:36	WG1931682
Chrysene	U		0.00530	0.0137	1	09/24/2022 16:36	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00393	0.0137	1	09/24/2022 16:36	WG1931682
Fluoranthene	U		0.00519	0.0137	1	09/24/2022 16:36	WG1931682
Fluorene	U		0.00469	0.0137	1	09/24/2022 16:36	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00414	0.0137	1	09/24/2022 16:36	WG1931682
Naphthalene	U		0.00933	0.0457	1	09/24/2022 16:36	WG1931682
Phenanthrene	U		0.00528	0.0137	1	09/24/2022 16:36	WG1931682
Pyrene	U		0.00457	0.0137	1	09/24/2022 16:36	WG1931682
1-Methylnaphthalene	U		0.0103	0.0457	1	09/24/2022 16:36	WG1931682
2-Methylnaphthalene	U		0.00976	0.0457	1	09/24/2022 16:36	WG1931682
2-Chloronaphthalene	U		0.0107	0.0457	1	09/24/2022 16:36	WG1931682
(S) Nitrobenzene-d5	*91.1*			*14.0-149*		*09/24/2022 16:36*	WG1931682
(S) 2-Fluorobiphenyl	*61.6*			*34.0-125*		*09/24/2022 16:36*	WG1931682
(S) p-Terphenyl-d14	*108*			*23.0-120*		*09/24/2022 16:36*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.0		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0740	J	0.0419	0.0930	1	09/27/2022 13:38	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	21.6		0.233	2.33	5	09/28/2022 18:50	WG1930689
Barium	51.5		0.353	5.81	5	09/28/2022 18:50	WG1930689
Cadmium	U		0.199	2.33	5	09/28/2022 18:50	WG1930689
Chromium	65.3		0.688	11.6	5	09/28/2022 18:50	WG1930689
Copper	49.9		0.307	11.6	5	09/28/2022 18:50	WG1930689
Lead	7.57		0.230	4.65	5	09/28/2022 18:50	WG1930689
Nickel	60.3		0.458	5.81	5	09/28/2022 18:50	WG1930689
Selenium	0.619	J	0.419	5.81	5	09/28/2022 18:50	WG1930689
Silver	U		0.201	1.16	5	09/28/2022 18:50	WG1930689
Zinc	75.3		1.72	58.1	5	09/28/2022 18:50	WG1930689

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		3.09	9.30	1	09/27/2022 19:03	WG1932771
Residual Range Organics (RRO)	19.9	J	7.74	23.3	1	09/27/2022 19:03	WG1932771
(S) o-Terphenyl	*37.2*			*18.0-148*		*09/27/2022 19:03*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0274	0.0791	1	09/26/2022 23:54	WG1932054
PCB 1221	U		0.0274	0.0791	1	09/26/2022 23:54	WG1932054
PCB 1232	U		0.0274	0.0791	1	09/26/2022 23:54	WG1932054
PCB 1242	U		0.0274	0.0791	1	09/26/2022 23:54	WG1932054
PCB 1248	U		0.0172	0.0395	1	09/26/2022 23:54	WG1932054
PCB 1254	U		0.0172	0.0395	1	09/26/2022 23:54	WG1932054
PCB 1260	U		0.0172	0.0395	1	09/26/2022 23:54	WG1932054
(S) Decachlorobiphenyl	*77.5*			*10.0-135*		*09/26/2022 23:54*	WG1932054
(S) Tetrachloro-m-xylene	*89.8*			*10.0-139*		*09/26/2022 23:54*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00535	0.0140	1	09/24/2022 16:54	WG1931682
Acenaphthene	U		0.00486	0.0140	1	09/24/2022 16:54	WG1931682
Acenaphthylene	U		0.00502	0.0140	1	09/24/2022 16:54	WG1931682
Benzo(a)anthracene	U		0.00402	0.0140	1	09/24/2022 16:54	WG1931682
Benzo(a)pyrene	U		0.00416	0.0140	1	09/24/2022 16:54	WG1931682
Benzo(b)fluoranthene	U		0.00356	0.0140	1	09/24/2022 16:54	WG1931682
Benzo(g,h,i)perylene	U		0.00412	0.0140	1	09/24/2022 16:54	WG1931682
Benzo(k)fluoranthene	U		0.00500	0.0140	1	09/24/2022 16:54	WG1931682
Chrysene	U		0.00540	0.0140	1	09/24/2022 16:54	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00400	0.0140	1	09/24/2022 16:54	WG1931682
Fluoranthene	U		0.00528	0.0140	1	09/24/2022 16:54	WG1931682
Fluorene	U		0.00477	0.0140	1	09/24/2022 16:54	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00421	0.0140	1	09/24/2022 16:54	WG1931682
Naphthalene	U		0.00949	0.0465	1	09/24/2022 16:54	WG1931682
Phenanthrene	U		0.00537	0.0140	1	09/24/2022 16:54	WG1931682
Pyrene	U		0.00465	0.0140	1	09/24/2022 16:54	WG1931682
1-Methylnaphthalene	U		0.0104	0.0465	1	09/24/2022 16:54	WG1931682
2-Methylnaphthalene	U		0.00993	0.0465	1	09/24/2022 16:54	WG1931682
2-Chloronaphthalene	U		0.0108	0.0465	1	09/24/2022 16:54	WG1931682
(S) Nitrobenzene-d5	*86.1*			*14.0-149*		*09/24/2022 16:54*	WG1931682
(S) 2-Fluorobiphenyl	*71.3*			*34.0-125*		*09/24/2022 16:54*	WG1931682
(S) p-Terphenyl-d14	*105*			*23.0-120*		*09/24/2022 16:54*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	56.3		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.130		0.0320	0.0711	1	09/27/2022 13:45	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	13.2		0.178	1.78	5	10/01/2022 14:35	WG1930701
Barium	52.3		0.270	4.44	5	10/01/2022 14:35	WG1930701
Cadmium	U		0.152	1.78	5	10/01/2022 14:35	WG1930701
Chromium	55.8		0.526	8.89	5	10/01/2022 14:35	WG1930701
Copper	47.6		0.235	8.89	5	10/01/2022 14:35	WG1930701
Lead	7.03		0.176	3.56	5	10/01/2022 14:35	WG1930701
Nickel	49.8		0.350	4.44	5	10/01/2022 14:35	WG1930701
Selenium	0.613	J	0.320	4.44	5	10/01/2022 14:35	WG1930701
Silver	U		0.154	0.889	5	10/01/2022 14:35	WG1930701
Zinc	74.7		1.32	44.4	5	10/01/2022 14:35	WG1930701

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.36	7.11	1	09/27/2022 19:16	WG1932771
Residual Range Organics (RRO)	U		5.92	17.8	1	09/27/2022 19:16	WG1932771
(S) o-Terphenyl	*33.8*			*18.0-148*		*09/27/2022 19:16*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0210	0.0604	1	09/27/2022 00:06	WG1932054
PCB 1221	U		0.0210	0.0604	1	09/27/2022 00:06	WG1932054
PCB 1232	U		0.0210	0.0604	1	09/27/2022 00:06	WG1932054
PCB 1242	U		0.0210	0.0604	1	09/27/2022 00:06	WG1932054
PCB 1248	U		0.0131	0.0302	1	09/27/2022 00:06	WG1932054
PCB 1254	U		0.0131	0.0302	1	09/27/2022 00:06	WG1932054
PCB 1260	U		0.0131	0.0302	1	09/27/2022 00:06	WG1932054
(S) Decachlorobiphenyl	*97.2*			*10.0-135*		*09/27/2022 00:06*	WG1932054
(S) Tetrachloro-m-xylene	*112*			*10.0-139*		*09/27/2022 00:06*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00409	0.0107	1	09/24/2022 17:46	WG1931682
Acenaphthene	U		0.00372	0.0107	1	09/24/2022 17:46	WG1931682
Acenaphthylene	U		0.00384	0.0107	1	09/24/2022 17:46	WG1931682
Benzo(a)anthracene	U		0.00308	0.0107	1	09/24/2022 17:46	WG1931682
Benzo(a)pyrene	U		0.00318	0.0107	1	09/24/2022 17:46	WG1931682
Benzo(b)fluoranthene	U		0.00272	0.0107	1	09/24/2022 17:46	WG1931682
Benzo(g,h,i)perylene	U		0.00315	0.0107	1	09/24/2022 17:46	WG1931682
Benzo(k)fluoranthene	U		0.00382	0.0107	1	09/24/2022 17:46	WG1931682
Chrysene	U		0.00412	0.0107	1	09/24/2022 17:46	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00306	0.0107	1	09/24/2022 17:46	WG1931682
Fluoranthene	U		0.00404	0.0107	1	09/24/2022 17:46	WG1931682
Fluorene	U		0.00364	0.0107	1	09/24/2022 17:46	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00322	0.0107	1	09/24/2022 17:46	WG1931682
Naphthalene	U		0.00725	0.0356	1	09/24/2022 17:46	WG1931682
Phenanthrene	U		0.00411	0.0107	1	09/24/2022 17:46	WG1931682
Pyrene	U		0.00356	0.0107	1	09/24/2022 17:46	WG1931682
1-Methylnaphthalene	U		0.00798	0.0356	1	09/24/2022 17:46	WG1931682
2-Methylnaphthalene	U		0.00759	0.0356	1	09/24/2022 17:46	WG1931682
2-Chloronaphthalene	U		0.00828	0.0356	1	09/24/2022 17:46	WG1931682
(S) Nitrobenzene-d5	*82.7*			*14.0-149*		*09/24/2022 17:46*	WG1931682
(S) 2-Fluorobiphenyl	*58.0*			*34.0-125*		*09/24/2022 17:46*	WG1931682
(S) p-Terphenyl-d14	*102*			*23.0-120*		*09/24/2022 17:46*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.1		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0264	0.0587	1	09/27/2022 13:48	WG1931306

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	18.8		0.147	1.47	5	10/01/2022 14:39	WG1930701
Barium	41.0		0.223	3.67	5	10/01/2022 14:39	WG1930701
Cadmium	0.232	J	0.125	1.47	5	10/01/2022 14:39	WG1930701
Chromium	26.8		0.434	7.34	5	10/01/2022 14:39	WG1930701
Copper	38.2		0.194	7.34	5	10/01/2022 14:39	WG1930701
Lead	8.98		0.145	2.94	5	10/01/2022 14:39	WG1930701
Nickel	31.4		0.289	3.67	5	10/01/2022 14:39	WG1930701
Selenium	0.304	J	0.264	3.67	5	10/01/2022 14:39	WG1930701
Silver	U		0.127	0.734	5	10/01/2022 14:39	WG1930701
Zinc	95.0		1.09	36.7	5	10/01/2022 14:39	WG1930701

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	21.7		1.95	5.87	1	09/28/2022 14:13	WG1932771
Residual Range Organics (RRO)	95.8		4.89	14.7	1	09/28/2022 14:13	WG1932771
(S) o-Terphenyl	*28.2*			*18.0-148*		*09/28/2022 14:13*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0173	0.0499	1	09/27/2022 00:31	WG1932054
PCB 1221	U		0.0173	0.0499	1	09/27/2022 00:31	WG1932054
PCB 1232	U		0.0173	0.0499	1	09/27/2022 00:31	WG1932054
PCB 1242	U		0.0173	0.0499	1	09/27/2022 00:31	WG1932054
PCB 1248	U		0.0108	0.0250	1	09/27/2022 00:31	WG1932054
PCB 1254	U		0.0108	0.0250	1	09/27/2022 00:31	WG1932054
PCB 1260	U		0.0108	0.0250	1	09/27/2022 00:31	WG1932054
(S) Decachlorobiphenyl	*93.7*			*10.0-135*		*09/27/2022 00:31*	WG1932054
(S) Tetrachloro-m-xylene	*106*			*10.0-139*		*09/27/2022 00:31*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00495	J	0.00338	0.00881	1	09/24/2022 19:14	WG1931682
Acenaphthene	0.0141		0.00307	0.00881	1	09/24/2022 19:14	WG1931682
Acenaphthylene	0.0219		0.00317	0.00881	1	09/24/2022 19:14	WG1931682
Benzo(a)anthracene	0.0133		0.00254	0.00881	1	09/24/2022 19:14	WG1931682
Benzo(a)pyrene	0.0236		0.00263	0.00881	1	09/24/2022 19:14	WG1931682
Benzo(b)fluoranthene	0.0335		0.00225	0.00881	1	09/24/2022 19:14	WG1931682
Benzo(g,h,i)perylene	0.0349		0.00260	0.00881	1	09/24/2022 19:14	WG1931682
Benzo(k)fluoranthene	0.00666	J	0.00316	0.00881	1	09/24/2022 19:14	WG1931682
Chrysene	0.0175		0.00341	0.00881	1	09/24/2022 19:14	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.00910		0.00252	0.00881	1	09/24/2022 19:14	WG1931682
Fluoranthene	0.0338		0.00333	0.00881	1	09/24/2022 19:14	WG1931682
Fluorene	0.0188		0.00301	0.00881	1	09/24/2022 19:14	WG1931682
Indeno(1,2,3-cd)pyrene	0.0157		0.00266	0.00881	1	09/24/2022 19:14	WG1931682
Naphthalene	0.0358	B	0.00599	0.0294	1	09/24/2022 19:14	WG1931682
Phenanthrene	0.0213	B	0.00339	0.00881	1	09/24/2022 19:14	WG1931682
Pyrene	0.0401		0.00294	0.00881	1	09/24/2022 19:14	WG1931682
1-Methylnaphthalene	0.0348		0.00659	0.0294	1	09/24/2022 19:14	WG1931682
2-Methylnaphthalene	U		0.00627	0.0294	1	09/24/2022 19:14	WG1931682
2-Chloronaphthalene	U		0.00684	0.0294	1	09/24/2022 19:14	WG1931682
(S) Nitrobenzene-d5	*122*			*14.0-149*		*09/24/2022 19:14*	WG1931682
(S) 2-Fluorobiphenyl	*93.1*			*34.0-125*		*09/24/2022 19:14*	WG1931682
(S) p-Terphenyl-d14	*88.9*			*23.0-120*		*09/24/2022 19:14*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.6		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0809		0.0266	0.0591	1	09/27/2022 12:47	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.06		0.148	1.48	5	09/26/2022 22:10	WG1930435
Barium	15.3		0.225	3.70	5	09/26/2022 22:10	WG1930435
Cadmium	U		0.126	1.48	5	09/26/2022 22:10	WG1930435
Chromium	17.2		0.438	7.39	5	09/26/2022 22:10	WG1930435
Copper	16.8		0.195	7.39	5	09/26/2022 22:10	WG1930435
Lead	2.62	J	0.146	2.96	5	09/26/2022 22:10	WG1930435
Nickel	17.8		0.291	3.70	5	09/26/2022 22:10	WG1930435
Selenium	U		0.266	3.70	5	09/26/2022 22:10	WG1930435
Silver	U		0.128	0.739	5	09/26/2022 22:10	WG1930435
Zinc	24.1	J	1.09	37.0	5	09/26/2022 22:10	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.97	5.91	1	09/27/2022 19:28	WG1932771
Residual Range Organics (RRO)	U		4.92	14.8	1	09/27/2022 19:28	WG1932771
(S) o-Terphenyl	*56.0*			*18.0-148*		*09/27/2022 19:28*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0174	0.0503	1	09/27/2022 00:19	WG1932054
PCB 1221	U		0.0174	0.0503	1	09/27/2022 00:19	WG1932054
PCB 1232	U		0.0174	0.0503	1	09/27/2022 00:19	WG1932054
PCB 1242	U		0.0174	0.0503	1	09/27/2022 00:19	WG1932054
PCB 1248	U		0.0109	0.0251	1	09/27/2022 00:19	WG1932054
PCB 1254	U		0.0109	0.0251	1	09/27/2022 00:19	WG1932054
PCB 1260	U		0.0109	0.0251	1	09/27/2022 00:19	WG1932054
(S) Decachlorobiphenyl	*110*			*10.0-135*		*09/27/2022 00:19*	WG1932054
(S) Tetrachloro-m-xylene	*114*			*10.0-139*		*09/27/2022 00:19*	WG1932054

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00340	0.00887	1	09/24/2022 18:03	WG1931682
Acenaphthene	U		0.00309	0.00887	1	09/24/2022 18:03	WG1931682
Acenaphthylene	U		0.00319	0.00887	1	09/24/2022 18:03	WG1931682
Benzo(a)anthracene	U		0.00256	0.00887	1	09/24/2022 18:03	WG1931682
Benzo(a)pyrene	U		0.00265	0.00887	1	09/24/2022 18:03	WG1931682
Benzo(b)fluoranthene	U		0.00226	0.00887	1	09/24/2022 18:03	WG1931682
Benzo(g,h,i)perylene	U		0.00262	0.00887	1	09/24/2022 18:03	WG1931682
Benzo(k)fluoranthene	U		0.00318	0.00887	1	09/24/2022 18:03	WG1931682
Chrysene	U		0.00343	0.00887	1	09/24/2022 18:03	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00254	0.00887	1	09/24/2022 18:03	WG1931682
Fluoranthene	U		0.00336	0.00887	1	09/24/2022 18:03	WG1931682
Fluorene	U		0.00303	0.00887	1	09/24/2022 18:03	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00268	0.00887	1	09/24/2022 18:03	WG1931682
Naphthalene	U		0.00603	0.0296	1	09/24/2022 18:03	WG1931682
Phenanthrene	U		0.00341	0.00887	1	09/24/2022 18:03	WG1931682
Pyrene	U		0.00296	0.00887	1	09/24/2022 18:03	WG1931682
1-Methylnaphthalene	U		0.00664	0.0296	1	09/24/2022 18:03	WG1931682
2-Methylnaphthalene	U		0.00631	0.0296	1	09/24/2022 18:03	WG1931682
2-Chloronaphthalene	U		0.00689	0.0296	1	09/24/2022 18:03	WG1931682
(S) Nitrobenzene-d5	*81.2*			*14.0-149*		*09/24/2022 18:03*	WG1931682
(S) 2-Fluorobiphenyl	*89.6*			*34.0-125*		*09/24/2022 18:03*	WG1931682
(S) p-Terphenyl-d14	*105*			*23.0-120*		*09/24/2022 18:03*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.1		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0361	J J5	0.0276	0.0614	1	09/27/2022 11:54	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	12.7		0.154	1.54	5	09/26/2022 22:13	WG1930435
Barium	32.0		0.233	3.84	5	09/26/2022 22:13	WG1930435
Cadmium	U		0.131	1.54	5	09/26/2022 22:13	WG1930435
Chromium	42.5		0.455	7.68	5	09/26/2022 22:13	WG1930435
Copper	39.6		0.203	7.68	5	09/26/2022 22:13	WG1930435
Lead	6.58		0.152	3.07	5	09/26/2022 22:13	WG1930435
Nickel	40.7		0.303	3.84	5	09/26/2022 22:13	WG1930435
Selenium	0.626	J	0.276	3.84	5	09/26/2022 22:13	WG1930435
Silver	U		0.133	0.768	5	09/26/2022 22:13	WG1930435
Zinc	57.9		1.14	38.4	5	09/26/2022 22:13	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.04	6.14	1	09/27/2022 19:41	WG1932771
Residual Range Organics (RRO)	U		5.11	15.4	1	09/27/2022 19:41	WG1932771
(S) o-Terphenyl	*51.4*			*18.0-148*		*09/27/2022 19:41*	WG1932771

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0181	0.0522	1	09/28/2022 21:53	WG1932422
PCB 1221	U		0.0181	0.0522	1	09/28/2022 21:53	WG1932422
PCB 1232	U		0.0181	0.0522	1	09/28/2022 21:53	WG1932422
PCB 1242	U		0.0181	0.0522	1	09/28/2022 21:53	WG1932422
PCB 1248	U		0.0113	0.0261	1	09/28/2022 21:53	WG1932422
PCB 1254	U		0.0113	0.0261	1	09/28/2022 21:53	WG1932422
PCB 1260	U		0.0113	0.0261	1	09/28/2022 21:53	WG1932422
(S) Decachlorobiphenyl	*69.5*			*10.0-135*		*09/28/2022 21:53*	WG1932422
(S) Tetrachloro-m-xylene	*80.1*			*10.0-139*		*09/28/2022 21:53*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00353	0.00922	1	09/24/2022 18:21	WG1931682
Acenaphthene	U		0.00321	0.00922	1	09/24/2022 18:21	WG1931682
Acenaphthylene	U		0.00332	0.00922	1	09/24/2022 18:21	WG1931682
Benzo(a)anthracene	U		0.00266	0.00922	1	09/24/2022 18:21	WG1931682
Benzo(a)pyrene	U		0.00275	0.00922	1	09/24/2022 18:21	WG1931682
Benzo(b)fluoranthene	U		0.00235	0.00922	1	09/24/2022 18:21	WG1931682
Benzo(g,h,i)perylene	U		0.00272	0.00922	1	09/24/2022 18:21	WG1931682
Benzo(k)fluoranthene	U		0.00330	0.00922	1	09/24/2022 18:21	WG1931682
Chrysene	U		0.00356	0.00922	1	09/24/2022 18:21	WG1931682

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00264	0.00922	1	09/24/2022 18:21	WG1931682
Fluoranthene	U		0.00349	0.00922	1	09/24/2022 18:21	WG1931682
Fluorene	U		0.00315	0.00922	1	09/24/2022 18:21	WG1931682
Indeno(1,2,3-cd)pyrene	U		0.00278	0.00922	1	09/24/2022 18:21	WG1931682
Naphthalene	U		0.00627	0.0307	1	09/24/2022 18:21	WG1931682
Phenanthrene	U		0.00355	0.00922	1	09/24/2022 18:21	WG1931682
Pyrene	U		0.00307	0.00922	1	09/24/2022 18:21	WG1931682
1-Methylnaphthalene	U		0.00690	0.0307	1	09/24/2022 18:21	WG1931682
2-Methylnaphthalene	U		0.00656	0.0307	1	09/24/2022 18:21	WG1931682
2-Chloronaphthalene	U		0.00716	0.0307	1	09/24/2022 18:21	WG1931682
(S) Nitrobenzene-d5	*66.1*			*14.0-149*		*09/24/2022 18:21*	WG1931682
(S) 2-Fluorobiphenyl	*74.7*			*34.0-125*		*09/24/2022 18:21*	WG1931682
(S) p-Terphenyl-d14	*85.7*			*23.0-120*		*09/24/2022 18:21*	WG1931682

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	35.8		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0592	J	0.0502	0.112	1	09/27/2022 12:49	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	13.6		0.279	2.79	5	09/26/2022 22:17	WG1930435
Barium	37.7		0.424	6.97	5	09/26/2022 22:17	WG1930435
Cadmium	U		0.238	2.79	5	09/26/2022 22:17	WG1930435
Chromium	44.4		0.826	13.9	5	09/26/2022 22:17	WG1930435
Copper	39.5		0.368	13.9	5	09/26/2022 22:17	WG1930435
Lead	10.2		0.276	5.58	5	09/26/2022 22:17	WG1930435
Nickel	38.4		0.550	6.97	5	09/26/2022 22:17	WG1930435
Selenium	0.732	J	0.502	6.97	5	09/26/2022 22:17	WG1930435
Silver	U		0.241	1.39	5	09/26/2022 22:17	WG1930435
Zinc	68.1	J	2.06	69.7	5	09/26/2022 22:17	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	12.5		3.71	11.2	1	09/27/2022 15:07	WG1932033
Residual Range Organics (RRO)	82.0		9.29	27.9	1	09/27/2022 15:07	WG1932033
(S) o-Terphenyl	*34.1*			*18.0-148*		*09/27/2022 15:07*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0329	0.0948	1	09/28/2022 12:30	WG1932422
PCB 1221	U		0.0329	0.0948	1	09/28/2022 12:30	WG1932422
PCB 1232	U		0.0329	0.0948	1	09/28/2022 12:30	WG1932422
PCB 1242	U		0.0329	0.0948	1	09/28/2022 12:30	WG1932422
PCB 1248	U		0.0206	0.0474	1	09/28/2022 12:30	WG1932422
PCB 1254	U		0.0206	0.0474	1	09/28/2022 12:30	WG1932422
PCB 1260	U		0.0206	0.0474	1	09/28/2022 12:30	WG1932422
(S) Decachlorobiphenyl	*39.6*			*10.0-135*		*09/28/2022 12:30*	WG1932422
(S) Tetrachloro-m-xylene	*51.1*			*10.0-139*		*09/28/2022 12:30*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00642	0.0167	1	09/24/2022 17:13	WG1931683
Acenaphthene	U		0.00583	0.0167	1	09/24/2022 17:13	WG1931683
Acenaphthylene	U		0.00603	0.0167	1	09/24/2022 17:13	WG1931683
Benzo(a)anthracene	U		0.00483	0.0167	1	09/24/2022 17:13	WG1931683
Benzo(a)pyrene	U		0.00499	0.0167	1	09/24/2022 17:13	WG1931683
Benzo(b)fluoranthene	U		0.00427	0.0167	1	09/24/2022 17:13	WG1931683
Benzo(g,h,i)perylene	U		0.00494	0.0167	1	09/24/2022 17:13	WG1931683
Benzo(k)fluoranthene	U		0.00600	0.0167	1	09/24/2022 17:13	WG1931683
Chrysene	U		0.00647	0.0167	1	09/24/2022 17:13	WG1931683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00480	0.0167	1	09/24/2022 17:13	WG1931683
Fluoranthene	U		0.00633	0.0167	1	09/24/2022 17:13	WG1931683
Fluorene	U		0.00572	0.0167	1	09/24/2022 17:13	WG1931683
Indeno(1,2,3-cd)pyrene	U		0.00505	0.0167	1	09/24/2022 17:13	WG1931683
Naphthalene	U		0.0114	0.0558	1	09/24/2022 17:13	WG1931683
Phenanthrene	U		0.00644	0.0167	1	09/24/2022 17:13	WG1931683
Pyrene	U		0.00558	0.0167	1	09/24/2022 17:13	WG1931683
1-Methylnaphthalene	U		0.0125	0.0558	1	09/24/2022 17:13	WG1931683
2-Methylnaphthalene	U		0.0119	0.0558	1	09/24/2022 17:13	WG1931683
2-Chloronaphthalene	U		0.0130	0.0558	1	09/24/2022 17:13	WG1931683
(S) Nitrobenzene-d5	*101*			*14.0-149*		*09/24/2022 17:13*	WG1931683
(S) 2-Fluorobiphenyl	*67.9*			*34.0-125*		*09/24/2022 17:13*	WG1931683
(S) p-Terphenyl-d14	*73.3*			*23.0-120*		*09/24/2022 17:13*	WG1931683

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.6		1	09/22/2022 12:05	WG1929910

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.154		0.0413	0.0917	1	09/27/2022 12:52	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	21.7		0.229	2.29	5	09/26/2022 19:33	WG1930435
Barium	51.4		0.348	5.73	5	09/26/2022 19:33	WG1930435
Cadmium	0.307	J	0.196	2.29	5	09/26/2022 19:33	WG1930435
Chromium	43.3		0.678	11.5	5	09/26/2022 19:33	WG1930435
Copper	73.4		0.303	11.5	5	09/26/2022 19:33	WG1930435
Lead	20.0		0.227	4.58	5	09/26/2022 19:33	WG1930435
Nickel	48.4		0.452	5.73	5	09/26/2022 19:33	WG1930435
Selenium	0.780	J	0.413	5.73	5	09/26/2022 19:33	WG1930435
Silver	0.213	J	0.198	1.15	5	09/26/2022 19:33	WG1930435
Zinc	86.7		1.70	57.3	5	09/26/2022 19:33	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	7.79	J	3.05	9.17	1	09/27/2022 14:55	WG1932033
Residual Range Organics (RRO)	20.7	J	7.63	22.9	1	09/27/2022 14:55	WG1932033
(S) o-Terphenyl	*53.0*			*18.0-148*		*09/27/2022 14:55*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0270	0.0779	1	09/28/2022 12:39	WG1932422
PCB 1221	U		0.0270	0.0779	1	09/28/2022 12:39	WG1932422
PCB 1232	U		0.0270	0.0779	1	09/28/2022 12:39	WG1932422
PCB 1242	U		0.0270	0.0779	1	09/28/2022 12:39	WG1932422
PCB 1248	U		0.0169	0.0390	1	09/28/2022 12:39	WG1932422
PCB 1254	U		0.0169	0.0390	1	09/28/2022 12:39	WG1932422
PCB 1260	U		0.0169	0.0390	1	09/28/2022 12:39	WG1932422
(S) Decachlorobiphenyl	*12.3*			*10.0-135*		*09/28/2022 12:39*	WG1932422
(S) Tetrachloro-m-xylene	*26.7*			*10.0-139*		*09/28/2022 12:39*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00527	0.0138	1	09/24/2022 15:46	WG1931683
Acenaphthene	U		0.00479	0.0138	1	09/24/2022 15:46	WG1931683
Acenaphthylene	U		0.00495	0.0138	1	09/24/2022 15:46	WG1931683
Benzo(a)anthracene	U		0.00397	0.0138	1	09/24/2022 15:46	WG1931683
Benzo(a)pyrene	U		0.00410	0.0138	1	09/24/2022 15:46	WG1931683
Benzo(b)fluoranthene	U		0.00351	0.0138	1	09/24/2022 15:46	WG1931683
Benzo(g,h,i)perylene	U		0.00406	0.0138	1	09/24/2022 15:46	WG1931683
Benzo(k)fluoranthene	U		0.00493	0.0138	1	09/24/2022 15:46	WG1931683
Chrysene	U		0.00532	0.0138	1	09/24/2022 15:46	WG1931683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00394	0.0138	1	09/24/2022 15:46	WG1931683
Fluoranthene	U		0.00520	0.0138	1	09/24/2022 15:46	WG1931683
Fluorene	U		0.00470	0.0138	1	09/24/2022 15:46	WG1931683
Indeno(1,2,3-cd)pyrene	U		0.00415	0.0138	1	09/24/2022 15:46	WG1931683
Naphthalene	0.0201	J	0.00935	0.0458	1	09/24/2022 15:46	WG1931683
Phenanthrene	0.00568	J	0.00529	0.0138	1	09/24/2022 15:46	WG1931683
Pyrene	0.00477	J	0.00458	0.0138	1	09/24/2022 15:46	WG1931683
1-Methylnaphthalene	U		0.0103	0.0458	1	09/24/2022 15:46	WG1931683
2-Methylnaphthalene	U		0.00979	0.0458	1	09/24/2022 15:46	WG1931683
2-Chloronaphthalene	U		0.0107	0.0458	1	09/24/2022 15:46	WG1931683
(S) Nitrobenzene-d5	*98.2*			*14.0-149*		*09/24/2022 15:46*	WG1931683
(S) 2-Fluorobiphenyl	*33.7*	J2		*34.0-125*		*09/24/2022 15:46*	WG1931683
(S) p-Terphenyl-d14	*37.4*			*23.0-120*		*09/24/2022 15:46*	WG1931683

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	39.5		1	09/22/2022 12:45	WG1929912

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.132		0.0456	0.101	1	09/27/2022 12:55	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	22.9		0.253	2.53	5	09/26/2022 22:20	WG1930435
Barium	54.9		0.385	6.33	5	09/26/2022 22:20	WG1930435
Cadmium	0.334	J	0.217	2.53	5	09/26/2022 22:20	WG1930435
Chromium	48.0		0.750	12.7	5	09/26/2022 22:20	WG1930435
Copper	81.4		0.334	12.7	5	09/26/2022 22:20	WG1930435
Lead	22.0		0.251	5.06	5	09/26/2022 22:20	WG1930435
Nickel	56.2		0.499	6.33	5	09/26/2022 22:20	WG1930435
Selenium	0.932	J	0.456	6.33	5	09/26/2022 22:20	WG1930435
Silver	0.244	J	0.219	1.27	5	09/26/2022 22:20	WG1930435
Zinc	102		1.87	63.3	5	09/26/2022 22:20	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8.31	J	3.37	10.1	1	09/27/2022 12:46	WG1932033
Residual Range Organics (RRO)	24.7	J	8.43	25.3	1	09/27/2022 12:46	WG1932033
(S) o-Terphenyl	*33.7*			*18.0-148*		*09/27/2022 12:46*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0299	0.0861	1	09/28/2022 12:49	WG1932422
PCB 1221	U		0.0299	0.0861	1	09/28/2022 12:49	WG1932422
PCB 1232	U		0.0299	0.0861	1	09/28/2022 12:49	WG1932422
PCB 1242	U		0.0299	0.0861	1	09/28/2022 12:49	WG1932422
PCB 1248	U		0.0187	0.0430	1	09/28/2022 12:49	WG1932422
PCB 1254	U		0.0187	0.0430	1	09/28/2022 12:49	WG1932422
PCB 1260	U		0.0187	0.0430	1	09/28/2022 12:49	WG1932422
(S) Decachlorobiphenyl	*18.6*			*10.0-135*		*09/28/2022 12:49*	WG1932422
(S) Tetrachloro-m-xylene	*26.4*			*10.0-139*		*09/28/2022 12:49*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00582	0.0152	1	09/24/2022 13:09	WG1931683
Acenaphthene	U		0.00529	0.0152	1	09/24/2022 13:09	WG1931683
Acenaphthylene	U		0.00547	0.0152	1	09/24/2022 13:09	WG1931683
Benzo(a)anthracene	U		0.00438	0.0152	1	09/24/2022 13:09	WG1931683
Benzo(a)pyrene	U		0.00453	0.0152	1	09/24/2022 13:09	WG1931683
Benzo(b)fluoranthene	U		0.00387	0.0152	1	09/24/2022 13:09	WG1931683
Benzo(g,h,i)perylene	U		0.00448	0.0152	1	09/24/2022 13:09	WG1931683
Benzo(k)fluoranthene	U		0.00544	0.0152	1	09/24/2022 13:09	WG1931683
Chrysene	U		0.00588	0.0152	1	09/24/2022 13:09	WG1931683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00436	0.0152	1	09/24/2022 13:09	WG1931683
Fluoranthene	U		0.00575	0.0152	1	09/24/2022 13:09	WG1931683
Fluorene	U		0.00519	0.0152	1	09/24/2022 13:09	WG1931683
Indeno(1,2,3-cd)pyrene	U		0.00458	0.0152	1	09/24/2022 13:09	WG1931683
Naphthalene	0.0135	J	0.0103	0.0506	1	09/24/2022 13:09	WG1931683
Phenanthrene	U		0.00585	0.0152	1	09/24/2022 13:09	WG1931683
Pyrene	U		0.00506	0.0152	1	09/24/2022 13:09	WG1931683
1-Methylnaphthalene	U		0.0114	0.0506	1	09/24/2022 13:09	WG1931683
2-Methylnaphthalene	U		0.0108	0.0506	1	09/24/2022 13:09	WG1931683
2-Chloronaphthalene	U		0.0118	0.0506	1	09/24/2022 13:09	WG1931683
(S) Nitrobenzene-d5	*98.0*			*14.0-149*		*09/24/2022 13:09*	WG1931683
(S) 2-Fluorobiphenyl	*35.3*			*34.0-125*		*09/24/2022 13:09*	WG1931683
(S) p-Terphenyl-d14	*36.2*			*23.0-120*		*09/24/2022 13:09*	WG1931683

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	41.0		1	09/22/2022 12:45	WG1929912

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.123		0.0440	0.0977	1	09/27/2022 12:57	WG1931308

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	19.5		0.244	2.44	5	09/26/2022 22:23	WG1930435
Barium	45.3		0.371	6.10	5	09/26/2022 22:23	WG1930435
Cadmium	0.322	J	0.209	2.44	5	09/26/2022 22:23	WG1930435
Chromium	39.3		0.723	12.2	5	09/26/2022 22:23	WG1930435
Copper	66.9		0.322	12.2	5	09/26/2022 22:23	WG1930435
Lead	20.3		0.242	4.88	5	09/26/2022 22:23	WG1930435
Nickel	47.6		0.481	6.10	5	09/26/2022 22:23	WG1930435
Selenium	0.710	J	0.440	6.10	5	09/26/2022 22:23	WG1930435
Silver	U		0.211	1.22	5	09/26/2022 22:23	WG1930435
Zinc	90.8		1.81	61.0	5	09/26/2022 22:23	WG1930435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	7.64	J	3.25	9.77	1	09/27/2022 14:55	WG1932033
Residual Range Organics (RRO)	25.9		8.13	24.4	1	09/27/2022 14:55	WG1932033
(S) o-Terphenyl	*31.5*			*18.0-148*		*09/27/2022 14:55*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0288	0.0830	1	09/28/2022 12:58	WG1932422
PCB 1221	U		0.0288	0.0830	1	09/28/2022 12:58	WG1932422
PCB 1232	U		0.0288	0.0830	1	09/28/2022 12:58	WG1932422
PCB 1242	U		0.0288	0.0830	1	09/28/2022 12:58	WG1932422
PCB 1248	U		0.0180	0.0415	1	09/28/2022 12:58	WG1932422
PCB 1254	U		0.0180	0.0415	1	09/28/2022 12:58	WG1932422
PCB 1260	U		0.0180	0.0415	1	09/28/2022 12:58	WG1932422
(S) Decachlorobiphenyl	*10.5*			*10.0-135*		*09/28/2022 12:58*	WG1932422
(S) Tetrachloro-m-xylene	*14.8*			*10.0-139*		*09/28/2022 12:58*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00562	0.0147	1	09/24/2022 13:26	WG1931683
Acenaphthene	U		0.00510	0.0147	1	09/24/2022 13:26	WG1931683
Acenaphthylene	U		0.00527	0.0147	1	09/24/2022 13:26	WG1931683
Benzo(a)anthracene	U		0.00422	0.0147	1	09/24/2022 13:26	WG1931683
Benzo(a)pyrene	U		0.00437	0.0147	1	09/24/2022 13:26	WG1931683
Benzo(b)fluoranthene	U		0.00374	0.0147	1	09/24/2022 13:26	WG1931683
Benzo(g,h,i)perylene	U		0.00432	0.0147	1	09/24/2022 13:26	WG1931683
Benzo(k)fluoranthene	U		0.00525	0.0147	1	09/24/2022 13:26	WG1931683
Chrysene	U		0.00566	0.0147	1	09/24/2022 13:26	WG1931683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00420	0.0147	1	09/24/2022 13:26	WG1931683
Fluoranthene	U		0.00554	0.0147	1	09/24/2022 13:26	WG1931683
Fluorene	U		0.00501	0.0147	1	09/24/2022 13:26	WG1931683
Indeno(1,2,3-cd)pyrene	U		0.00442	0.0147	1	09/24/2022 13:26	WG1931683
Naphthalene	0.0184	J	0.00996	0.0488	1	09/24/2022 13:26	WG1931683
Phenanthrene	U		0.00564	0.0147	1	09/24/2022 13:26	WG1931683
Pyrene	U		0.00488	0.0147	1	09/24/2022 13:26	WG1931683
1-Methylnaphthalene	U		0.0110	0.0488	1	09/24/2022 13:26	WG1931683
2-Methylnaphthalene	U		0.0104	0.0488	1	09/24/2022 13:26	WG1931683
2-Chloronaphthalene	U		0.0114	0.0488	1	09/24/2022 13:26	WG1931683
(S) Nitrobenzene-d5	*98.5*			*14.0-149*		*09/24/2022 13:26*	WG1931683
(S) 2-Fluorobiphenyl	*38.5*			*34.0-125*		*09/24/2022 13:26*	WG1931683
(S) p-Terphenyl-d14	*42.0*			*23.0-120*		*09/24/2022 13:26*	WG1931683

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	43.5		1	09/22/2022 12:45	WG1929912

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.119		0.0414	0.0919	1	09/28/2022 13:07	WG1931307

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	15.9		0.0230	0.230	.5	09/28/2022 18:54	WG1930689
Barium	49.6		0.349	5.75	5	09/28/2022 20:08	WG1930689
Cadmium	0.358		0.0197	0.230	.5	09/28/2022 18:54	WG1930689
Chromium	53.7		0.680	11.5	5	09/28/2022 20:08	WG1930689
Copper	74.6		0.303	11.5	5	09/28/2022 20:08	WG1930689
Lead	21.5		0.0228	0.460	.5	09/28/2022 18:54	WG1930689
Nickel	58.5		0.453	5.75	5	09/28/2022 20:08	WG1930689
Selenium	0.686		0.0414	0.575	.5	09/28/2022 18:54	WG1930689
Silver	0.220		0.0199	0.115	.5	09/28/2022 18:54	WG1930689
Zinc	108		1.70	57.5	5	09/28/2022 20:08	WG1930689

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	6.37	J	3.06	9.19	1	09/27/2022 12:34	WG1932033
Residual Range Organics (RRO)	21.1	J	7.65	23.0	1	09/27/2022 12:34	WG1932033
(S) o-Terphenyl	*45.0*			*18.0-148*		*09/27/2022 12:34*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0271	0.0781	1	09/28/2022 13:08	WG1932422
PCB 1221	U		0.0271	0.0781	1	09/28/2022 13:08	WG1932422
PCB 1232	U		0.0271	0.0781	1	09/28/2022 13:08	WG1932422
PCB 1242	U		0.0271	0.0781	1	09/28/2022 13:08	WG1932422
PCB 1248	U		0.0170	0.0391	1	09/28/2022 13:08	WG1932422
PCB 1254	U		0.0170	0.0391	1	09/28/2022 13:08	WG1932422
PCB 1260	U		0.0170	0.0391	1	09/28/2022 13:08	WG1932422
(S) Decachlorobiphenyl	*15.9*			*10.0-135*		*09/28/2022 13:08*	WG1932422
(S) Tetrachloro-m-xylene	*25.9*			*10.0-139*		*09/28/2022 13:08*	WG1932422

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00529	0.0138	1	09/24/2022 16:03	WG1931683
Acenaphthene	U		0.00480	0.0138	1	09/24/2022 16:03	WG1931683
Acenaphthylene	U		0.00496	0.0138	1	09/24/2022 16:03	WG1931683
Benzo(a)anthracene	U		0.00398	0.0138	1	09/24/2022 16:03	WG1931683
Benzo(a)pyrene	0.00430	J	0.00411	0.0138	1	09/24/2022 16:03	WG1931683
Benzo(b)fluoranthene	U		0.00352	0.0138	1	09/24/2022 16:03	WG1931683
Benzo(g,h,i)perylene	U		0.00407	0.0138	1	09/24/2022 16:03	WG1931683
Benzo(k)fluoranthene	U		0.00494	0.0138	1	09/24/2022 16:03	WG1931683
Chrysene	U		0.00533	0.0138	1	09/24/2022 16:03	WG1931683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00395	0.0138	1	09/24/2022 16:03	WG1931683
Fluoranthene	0.00747	J	0.00522	0.0138	1	09/24/2022 16:03	WG1931683
Fluorene	U		0.00471	0.0138	1	09/24/2022 16:03	WG1931683
Indeno(1,2,3-cd)pyrene	U		0.00416	0.0138	1	09/24/2022 16:03	WG1931683
Naphthalene	0.0138	J	0.00938	0.0460	1	09/24/2022 16:03	WG1931683
Phenanthrene	0.00692	J	0.00531	0.0138	1	09/24/2022 16:03	WG1931683
Pyrene	0.00802	J	0.00460	0.0138	1	09/24/2022 16:03	WG1931683
1-Methylnaphthalene	U		0.0103	0.0460	1	09/24/2022 16:03	WG1931683
2-Methylnaphthalene	U		0.00981	0.0460	1	09/24/2022 16:03	WG1931683
2-Chloronaphthalene	U		0.0107	0.0460	1	09/24/2022 16:03	WG1931683
(S) Nitrobenzene-d5	*77.8*			*14.0-149*		*09/24/2022 16:03*	WG1931683
(S) 2-Fluorobiphenyl	*41.3*			*34.0-125*		*09/24/2022 16:03*	WG1931683
(S) p-Terphenyl-d14	*53.6*			*23.0-120*		*09/24/2022 16:03*	WG1931683

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	58.0		1	09/22/2022 12:45	WG1929912

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0333	J	0.0310	0.0690	1	09/28/2022 13:10	WG1931307

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	19.1		0.172	1.72	5	09/28/2022 18:57	WG1930689
Barium	46.0		0.262	4.31	5	09/28/2022 18:57	WG1930689
Cadmium	0.169	J	0.147	1.72	5	09/28/2022 18:57	WG1930689
Chromium	33.4		0.510	8.62	5	09/28/2022 18:57	WG1930689
Copper	26.8		0.228	8.62	5	09/28/2022 18:57	WG1930689
Lead	12.9		0.171	3.45	5	09/28/2022 18:57	WG1930689
Nickel	28.4		0.340	4.31	5	09/28/2022 18:57	WG1930689
Selenium	U		0.310	4.31	5	09/28/2022 18:57	WG1930689
Silver	U		0.149	0.862	5	09/28/2022 18:57	WG1930689
Zinc	85.7		1.28	43.1	5	09/28/2022 18:57	WG1930689

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	09/22/2022 12:45	WG1929912

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.56	J	1.49	4.49	1	09/27/2022 11:56	WG1932033
Residual Range Organics (RRO)	8.49	J	3.74	11.2	1	09/27/2022 11:56	WG1932033
(S) o-Terphenyl	*66.0*			*18.0-148*		*09/27/2022 11:56*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.7		1	09/22/2022 12:45	WG1929912

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.26	J	2.09	6.28	1	09/27/2022 12:09	WG1932033
Residual Range Organics (RRO)	U		5.23	15.7	1	09/27/2022 12:09	WG1932033
(S) o-Terphenyl	*44.6*			*18.0-148*		*09/27/2022 12:09*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	09/22/2022 12:45	WG1929912

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0218	0.0484	1	10/12/2022 08:39	WG1939802

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.12		0.121	1.21	5	10/16/2022 11:16	WG1942959
Barium	50.1		0.184	3.02	5	10/16/2022 11:16	WG1942959
Cadmium	0.193	J	0.103	1.21	5	10/16/2022 11:16	WG1942959
Chromium	31.2		0.358	6.05	5	10/16/2022 11:16	WG1942959
Copper	18.7		0.160	6.05	5	10/16/2022 11:16	WG1942959
Lead	37.5		0.120	2.42	5	10/16/2022 11:16	WG1942959
Nickel	31.5		0.238	3.02	5	10/16/2022 11:16	WG1942959
Selenium	0.275	J	0.218	3.02	5	10/16/2022 11:16	WG1942959
Silver	U		0.105	0.605	5	10/16/2022 11:16	WG1942959
Zinc	66.9		0.895	30.2	5	10/16/2022 11:16	WG1942959

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2720		32.2	96.8	20	09/27/2022 15:32	WG1932033
Residual Range Organics (RRO)	4380		403	1210	100	09/27/2022 20:18	WG1932033
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*09/27/2022 20:18*	WG1932033
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*09/27/2022 15:32*	WG1932033

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U	J3 J5	0.0143	0.0411	1	10/07/2022 23:42	WG1938025
PCB 1221	U		0.0143	0.0411	1	10/07/2022 23:42	WG1938025
PCB 1232	U		0.0143	0.0411	1	10/07/2022 23:42	WG1938025
PCB 1242	U		0.0143	0.0411	1	10/07/2022 23:42	WG1938025
PCB 1248	U		0.00893	0.0206	1	10/07/2022 23:42	WG1938025
PCB 1254	U		0.00893	0.0206	1	10/07/2022 23:42	WG1938025
PCB 1260	U		0.00893	0.0206	1	10/07/2022 23:42	WG1938025
(S) Decachlorobiphenyl	*80.1*			*10.0-135*		*10/07/2022 23:42*	WG1938025
(S) Tetrachloro-m-xylene	*84.1*			*10.0-139*		*10/07/2022 23:42*	WG1938025

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.3		1	09/22/2022 12:45	WG1929912

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.41	J	2.01	6.04	1	09/27/2022 11:32	WG1932033
Residual Range Organics (RRO)	U		5.03	15.1	1	09/27/2022 11:32	WG1932033
(S) o-Terphenyl	*49.1*			*18.0-148*		*09/27/2022 11:32*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.3		1	09/22/2022 12:45	WG1929912

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.72	5.07	25	09/23/2022 09:33	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*09/23/2022 09:33*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	6.73		2.01	6.03	1	09/27/2022 12:21	WG1932033
Residual Range Organics (RRO)	18.9		5.02	15.1	1	09/27/2022 12:21	WG1932033
(S) o-Terphenyl	*51.2*			*18.0-148*		*09/27/2022 12:21*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.8		1	09/22/2022 12:45	WG1929912

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.66	4.89	25	09/23/2022 09:55	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*09/23/2022 09:55*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.57	J	1.91	5.73	1	09/27/2022 12:58	WG1932033
Residual Range Organics (RRO)	23.9		4.77	14.3	1	09/27/2022 12:58	WG1932033
(S) o-Terphenyl	*34.7*			*18.0-148*		*09/27/2022 12:58*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	09/22/2022 13:08	WG1929914

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	163		1.05	3.08	25	09/23/2022 10:18	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*09/23/2022 10:18*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	173		7.39	22.2	5	09/27/2022 15:32	WG1932033
Residual Range Organics (RRO)	109		18.5	55.6	5	09/27/2022 15:32	WG1932033
(S) o-Terphenyl	*47.5*			*18.0-148*		*09/27/2022 15:32*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	57.7		1	09/22/2022 13:08	WG1929914

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	6.83		2.18	6.42	25	09/23/2022 10:40	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*09/23/2022 10:40*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.34	J	2.31	6.93	1	09/27/2022 11:56	WG1932033
Residual Range Organics (RRO)	17.9		5.77	17.3	1	09/27/2022 11:56	WG1932033
(S) o-Terphenyl	*49.2*			*18.0-148*		*09/27/2022 11:56*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	09/22/2022 13:08	WG1929914

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.64	4.83	25	09/23/2022 11:03	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*09/23/2022 11:03*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.43	J	1.89	5.67	1	09/27/2022 11:44	WG1932033
Residual Range Organics (RRO)	17.2		4.72	14.2	1	09/27/2022 11:44	WG1932033
(S) o-Terphenyl	*39.4*			*18.0-148*		*09/27/2022 11:44*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	47.0		1	09/22/2022 13:08	WG1929914

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		2.79	8.24	25.5	09/23/2022 11:25	WG1931051
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*09/23/2022 11:25*	WG1931051

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.51	J	2.83	8.51	1	09/27/2022 15:07	WG1932033
Residual Range Organics (RRO)	35.7		7.08	21.3	1	09/27/2022 15:07	WG1932033
(S) o-Terphenyl	*48.9*			*18.0-148*		*09/27/2022 15:07*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	50.2		1	09/22/2022 13:08	WG1929914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	7.39	J	2.65	7.97	1	09/27/2022 12:46	WG1932033
Residual Range Organics (RRO)	51.4		6.63	19.9	1	09/27/2022 12:46	WG1932033
(S) o-Terphenyl	*32.5*			*18.0-148*		*09/27/2022 12:46*	WG1932033

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.1		1	09/22/2022 13:08	WG1929914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.03	J	2.11	6.34	1	09/27/2022 12:58	WG1932033
Residual Range Organics (RRO)	60.6		5.28	15.9	1	09/27/2022 12:58	WG1932033
(S) o-Terphenyl	*47.4*			*18.0-148*		*09/27/2022 12:58*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.6		1	09/22/2022 13:08	WG1929914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.82	J	1.94	5.83	1	09/27/2022 15:20	WG1932033
Residual Range Organics (RRO)	16.9		4.86	14.6	1	09/27/2022 15:20	WG1932033
(S) o-Terphenyl	*40.8*			*18.0-148*		*09/27/2022 15:20*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.2		1	09/22/2022 13:08	WG1929914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.57	J	2.14	6.43	1	09/27/2022 12:09	WG1932033
Residual Range Organics (RRO)	20.9		5.35	16.1	1	09/27/2022 12:09	WG1932033
(S) o-Terphenyl	*37.8*			*18.0-148*		*09/27/2022 12:09*	WG1932033

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	61.6		1	09/22/2022 13:08	WG1929914

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.79	J	2.16	6.50	1	09/27/2022 15:20	WG1932033
Residual Range Organics (RRO)	35.6		5.41	16.2	1	09/27/2022 15:20	WG1932033
(S) o-Terphenyl	*44.1*			*18.0-148*		*09/27/2022 15:20*	WG1932033

Method Blank (MB)

(MB) R3840518-1 09/22/22 12:05

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1537694-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1537694-02 09/22/22 12:05 • (DUP) R3840518-3 09/22/22 12:05

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	55.3	55.1	1	0.338		10

Laboratory Control Sample (LCS)

(LCS) R3840518-2 09/22/22 12:05

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3840527-1 09/22/22 12:45

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1537694-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1537694-15 09/22/22 12:45 • (DUP) R3840527-3 09/22/22 12:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.1	89.0	1	0.0994		10

Laboratory Control Sample (LCS)

(LCS) R3840527-2 09/22/22 12:45

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3840528-1 09/22/22 13:08

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

L1537694-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1537694-21 09/22/22 13:08 • (DUP) R3840528-3 09/22/22 13:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.9	90.6	1	0.748		10

Laboratory Control Sample (LCS)

(LCS) R3840528-2 09/22/22 13:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3841885-1 09/27/22 13:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3841885-2 09/27/22 13:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.506	101	80.0-120	

L1537694-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-01 09/27/22 13:05 • (MS) R3841885-3 09/27/22 13:07 • (MSD) R3841885-4 09/27/22 13:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.986	0.0664	1.64	1.62	159	157	1	75.0-125	J5	J5	1.26	20

Method Blank (MB)

(MB) R3842393-1 09/28/22 12:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3842393-2 09/28/22 12:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.494	98.8	80.0-120	

L1537358-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537358-07 09/28/22 12:37 • (MS) R3842393-3 09/28/22 12:39 • (MSD) R3842393-4 09/28/22 12:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.627	U	0.597	0.571	95.2	91.0	1	75.0-125			4.57	20

Method Blank (MB)

(MB) R3841886-1 09/27/22 11:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3841886-2 09/27/22 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.490	97.9	80.0-120	

L1537694-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-08 09/27/22 11:54 • (MS) R3841886-3 09/27/22 11:56 • (MSD) R3841886-4 09/27/22 11:59

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.768	0.0361	0.886	1.04	111	131	1	75.0-125		J5	16.3	20

Method Blank (MB)

(MB) R3847630-1 10/12/22 08:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3847630-2 10/12/22 08:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.448	89.7	80.0-120	

L1540653-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540653-21 10/12/22 08:26 • (MS) R3847630-3 10/12/22 08:29 • (MSD) R3847630-4 10/12/22 08:31

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.0282	0.618	0.537	118	102	1	75.0-125			13.9	20

Method Blank (MB)

(MB) R3841557-1 09/26/22 19:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3841557-2 09/26/22 19:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	90.3	90.3	80.0-120	
Barium	100	88.0	88.0	80.0-120	
Cadmium	100	90.1	90.1	80.0-120	
Chromium	100	91.3	91.3	80.0-120	
Copper	100	94.7	94.7	80.0-120	
Lead	100	90.8	90.8	80.0-120	
Nickel	100	91.4	91.4	80.0-120	
Selenium	100	101	101	80.0-120	
Silver	20.0	18.0	90.0	80.0-120	
Zinc	100	88.5	88.5	80.0-120	

L1537694-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-10 09/26/22 19:33 • (MS) R3841557-5 09/26/22 19:43 • (MSD) R3841557-6 09/26/22 19:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	229	21.7	216	219	84.7	86.2	5	75.0-125			1.55	20
Barium	229	51.4	237	245	80.9	84.4	5	75.0-125	E	E	3.34	20
Cadmium	229	0.307	204	208	88.9	90.8	5	75.0-125			2.09	20
Chromium	229	43.3	239	244	85.3	87.7	5	75.0-125			2.36	20
Copper	229	73.4	264	271	83.4	86.2	5	75.0-125			2.45	20
Lead	229	20.0	219	224	87.0	88.9	5	75.0-125			1.98	20

L1537694-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-10 09/26/22 19:33 • (MS) R3841557-5 09/26/22 19:43 • (MSD) R3841557-6 09/26/22 19:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	229	48.4	246	250	86.4	88.1	5	75.0-125			1.62	20
Selenium	229	0.780	224	229	97.2	99.4	5	75.0-125			2.22	20
Silver	45.8	0.213	40.6	41.2	88.2	89.3	5	75.0-125			1.29	20
Zinc	229	86.7	270	276	80.0	82.8	5	75.0-125			2.30	20

Method Blank (MB)

(MB) R3842535-1 09/28/22 17:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3842535-2 09/28/22 17:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.2	97.2	80.0-120	
Barium	100	94.4	94.4	80.0-120	
Cadmium	100	101	101	80.0-120	
Chromium	100	99.1	99.1	80.0-120	
Copper	100	90.7	90.7	80.0-120	
Lead	100	95.9	95.9	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	104	104	80.0-120	
Silver	20.0	19.6	98.0	80.0-120	
Zinc	100	96.1	96.1	80.0-120	

L1536824-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536824-33 09/28/22 17:54 • (MS) R3842535-5 09/28/22 18:03 • (MSD) R3842535-6 09/28/22 18:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	104	2.82	100	99.4	93.7	93.2	5	75.0-125			0.549	20
Barium	104	101	240	244	134	138	5	75.0-125	J5	J5	1.82	20
Cadmium	104	U	106	104	102	100	5	75.0-125			2.35	20
Chromium	104	15.5	135	122	116	103	5	75.0-125			10.6	20
Copper	104	18.5	110	112	88.7	89.9	5	75.0-125			1.14	20
Lead	104	11.4	106	109	91.4	94.6	5	75.0-125			3.16	20

L1536824-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536824-33 09/28/22 17:54 • (MS) R3842535-5 09/28/22 18:03 • (MSD) R3842535-6 09/28/22 18:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	104	27.6	141	133	110	102	5	75.0-125			6.19	20
Selenium	104	0.207	108	107	104	103	5	75.0-125			0.631	20
Silver	20.7	U	20.4	20.1	98.5	96.9	5	75.0-125			1.61	20
Zinc	104	36.5	139	142	98.9	102	5	75.0-125			2.01	20

Method Blank (MB)

(MB) R3843656-1 10/01/22 11:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3843656-2 10/01/22 11:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	93.0	93.0	80.0-120	
Barium	100	91.8	91.8	80.0-120	
Cadmium	100	93.5	93.5	80.0-120	
Chromium	100	93.0	93.0	80.0-120	
Copper	100	89.2	89.2	80.0-120	
Lead	100	89.7	89.7	80.0-120	
Nickel	100	93.5	93.5	80.0-120	
Selenium	100	99.8	99.8	80.0-120	
Silver	20.0	19.9	99.4	80.0-120	
Zinc	100	91.3	91.3	80.0-120	

L1537967-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537967-04 10/01/22 11:49 • (MS) R3843656-5 10/01/22 11:58 • (MSD) R3843656-6 10/01/22 12:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	112	6.16	116	103	98.2	86.8	5	75.0-125			11.6	20
Barium	112	113	228	217	102	92.5	5	75.0-125	E	E	4.76	20
Cadmium	112	0.127	114	102	102	90.8	5	75.0-125			11.3	20
Chromium	112	18.7	129	117	98.2	87.8	5	75.0-125			9.52	20
Copper	112	16.8	119	108	91.0	81.5	5	75.0-125			9.37	20
Lead	112	3.47	112	102	97.1	88.4	5	75.0-125			9.03	20

L1537967-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537967-04 10/01/22 11:49 • (MS) R3843656-5 10/01/22 11:58 • (MSD) R3843656-6 10/01/22 12:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	112	18.3	127	114	97.4	85.3	5	75.0-125			11.3	20
Selenium	112	0.291	122	111	109	99.0	5	75.0-125			9.75	20
Silver	22.4	U	24.4	21.9	109	97.8	5	75.0-125			10.9	20
Zinc	112	42.7	146	136	92.5	83.4	5	75.0-125			7.20	20

Method Blank (MB)

(MB) R3841494-1 09/26/22 12:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3841494-2 09/26/22 12:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.4	98.4	80.0-120	
Barium	100	95.4	95.4	80.0-120	
Cadmium	100	100	100	80.0-120	
Chromium	100	99.2	99.2	80.0-120	
Copper	100	96.7	96.7	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	99.4	99.4	80.0-120	
Selenium	100	110	110	80.0-120	
Silver	20.0	20.1	100	80.0-120	
Zinc	100	96.9	96.9	80.0-120	

L1538631-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538631-10 09/26/22 12:42 • (MS) R3841494-5 09/26/22 12:52 • (MSD) R3841494-6 09/26/22 12:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	117	7.74	116	113	92.7	90.0	5	75.0-125			2.70	20
Barium	117	148	252	283	89.2	116	5	75.0-125			11.8	20
Cadmium	117	0.113	118	116	101	99.2	5	75.0-125			1.88	20
Chromium	117	20.1	133	130	97.2	94.0	5	75.0-125			2.84	20
Copper	117	18.5	125	127	91.8	93.4	5	75.0-125			1.49	20
Lead	117	7.24	122	115	98.7	92.5	5	75.0-125			6.07	20

L1538631-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538631-10 09/26/22 12:42 • (MS) R3841494-5 09/26/22 12:52 • (MSD) R3841494-6 09/26/22 12:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	117	17.3	130	128	97.0	95.1	5	75.0-125			1.72	20
Selenium	117	0.428	124	120	106	103	5	75.0-125			2.82	20
Silver	23.3	U	23.0	22.7	98.9	97.5	5	75.0-125			1.40	20
Zinc	117	55.8	164	162	92.7	91.3	5	75.0-125			0.957	20

Method Blank (MB)

(MB) R3848979-1 10/16/22 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3848979-2 10/16/22 10:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	94.6	94.6	80.0-120	
Barium	100	94.6	94.6	80.0-120	
Cadmium	100	98.3	98.3	80.0-120	
Chromium	100	95.8	95.8	80.0-120	
Copper	100	91.7	91.7	80.0-120	
Lead	100	95.2	95.2	80.0-120	
Nickel	100	95.8	95.8	80.0-120	
Selenium	100	103	103	80.0-120	
Silver	20.0	19.2	96.0	80.0-120	
Zinc	100	93.4	93.4	80.0-120	

L1539414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539414-01 10/16/22 11:00 • (MS) R3848979-5 10/16/22 11:10 • (MSD) R3848979-6 10/16/22 11:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	116	5.43	112	101	92.2	82.9	5	75.0-125			10.1	20
Barium	116	236	316	311	69.0	64.7	5	75.0-125	J6	J6	1.60	20
Cadmium	116	0.280	113	104	97.5	89.6	5	75.0-125			8.50	20
Chromium	116	16.2	123	114	92.4	84.7	5	75.0-125			7.50	20
Copper	116	35.6	131	124	82.9	76.4	5	75.0-125			5.90	20
Lead	116	137	217	244	68.7	92.1	5	75.0-125	J6		11.7	20

L1539414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539414-01 10/16/22 11:00 • (MS) R3848979-5 10/16/22 11:10 • (MSD) R3848979-6 10/16/22 11:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	116	21.2	129	117	93.5	82.5	5	75.0-125			10.3	20
Selenium	116	0.350	118	109	102	94.0	5	75.0-125			7.88	20
Silver	23.1	U	21.8	20.1	94.3	86.8	5	75.0-125			8.29	20
Zinc	116	68.0	175	159	92.9	78.8	5	75.0-125			9.77	20

Method Blank (MB)

(MB) R3840801-4 09/23/22 04:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

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

(LCS) R3840801-2 09/23/22 03:31 • (LCSD) R3840801-3 09/23/22 03:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C6 - C12	5.50	5.50	5.48	100	99.6	71.0-124			0.364	20
(S) a,a,a-Trifluorotoluene(FID)				*104*	*107*	*77.0-120*				

Method Blank (MB)

(MB) R3841883-1 09/27/22 11:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*72.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3841883-2 09/27/22 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	30.1	60.2	50.0-150	
(S) o-Terphenyl			*65.9*	*18.0-148*	

L1537694-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-16 09/27/22 12:09 • (MS) R3841883-3 09/27/22 12:21 • (MSD) R3841883-4 09/27/22 12:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	78.5	2.26	47.3	48.2	57.3	58.5	1	50.0-150			1.97	20
(S) o-Terphenyl					*41.3*	*52.4*		*18.0-148*				

Method Blank (MB)

(MB) R3842232-1 09/27/22 17:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*73.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3842232-2 09/27/22 17:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	40.6	81.2	50.0-150	
(S) o-Terphenyl			*81.5*	*18.0-148*	

L1537694-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-01 09/27/22 18:01 • (MS) R3842232-3 09/27/22 18:14 • (MSD) R3842232-4 09/27/22 18:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	98.0	U	62.3	48.1	63.6	50.3	1	50.0-150		J3	25.7	20
(S) o-Terphenyl					*55.1*	*58.5*		*18.0-148*				

Method Blank (MB)

(MB) R3841863-1 09/26/22 20:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*91.0*			*10.0-135*
(S) Tetrachloro-m-xylene	*113*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3841863-2 09/26/22 20:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.191	114	36.0-141	
PCB 1260	0.167	0.161	96.4	37.0-145	
(S) Decachlorobiphenyl			*98.3*	*10.0-135*	
(S) Tetrachloro-m-xylene			*117*	*10.0-139*	

L1537379-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537379-01 09/26/22 22:12 • (MS) R3841863-3 09/26/22 22:25 • (MSD) R3841863-4 09/26/22 22:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.181	U	0.254	0.256	141	141	1	10.0-160			0.425	37
PCB 1260	0.181	U	0.212	0.210	117	116	1	10.0-160			1.03	38
(S) Decachlorobiphenyl					*113*	*112*		*10.0-135*				
(S) Tetrachloro-m-xylene					*126*	*124*		*10.0-139*				

Method Blank (MB)

(MB) R3842488-1 09/28/22 11:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*32.1*			*10.0-135*
(S) Tetrachloro-m-xylene	*29.1*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3842488-2 09/28/22 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.0971	58.1	36.0-141	
PCB 1260	0.167	0.0894	53.5	37.0-145	
(S) Decachlorobiphenyl			*59.9*	*10.0-135*	
(S) Tetrachloro-m-xylene			*52.4*	*10.0-139*	

L1538497-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538497-01 09/28/22 14:05 • (MS) R3842488-3 09/28/22 14:15 • (MSD) R3842488-4 09/28/22 14:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.203	U	0.0927	0.185	45.6	91.0	1	10.0-160		J3	66.4	37
PCB 1260	0.203	U	0.0578	0.153	28.4	75.4	1	10.0-160		J3	90.5	38
(S) Decachlorobiphenyl					*38.9*	*78.8*		*10.0-135*				
(S) Tetrachloro-m-xylene					*68.0*	*86.8*		*10.0-139*				

Method Blank (MB)

(MB) R3845590-1 10/06/22 14:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*83.3*			*10.0-135*
(S) Tetrachloro-m-xylene	*99.5*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3845590-5 10/06/22 14:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.126	75.4	36.0-141	
PCB 1260	0.167	0.117	70.1	37.0-145	
(S) Decachlorobiphenyl			*78.1*	*10.0-135*	
(S) Tetrachloro-m-xylene			*85.1*	*10.0-139*	

L1537694-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537694-17 10/07/22 23:42 • (MS) R3846224-1 10/07/22 23:51 • (MSD) R3846224-2 10/08/22 00:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.197	U	0.133	0.426	67.5	217	1	10.0-160	P	J3 J5 P	105	37
PCB 1260	0.197	U	0.142	0.120	71.8	61.3	1	10.0-160	P	P	16.4	38
(S) Decachlorobiphenyl					*65.4*	*54.5*		*10.0-135*				
(S) Tetrachloro-m-xylene					*84.7*	*70.1*		*10.0-139*				

Method Blank (MB)

(MB) R3841692-2 09/24/22 12:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	0.00572	J	0.00408	0.0200
Phenanthrene	0.00293	J	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) Nitrobenzene-d5	*87.8*			*14.0-149*
(S) 2-Fluorobiphenyl	*98.9*			*34.0-125*
(S) p-Terphenyl-d14	*128*	J1		*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3841692-1 09/24/22 12:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0509	63.6	50.0-126	
Acenaphthene	0.0800	0.0554	69.3	50.0-120	
Acenaphthylene	0.0800	0.0561	70.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0540	67.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0494	61.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0613	76.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0564	70.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0595	74.4	49.0-125	
Chrysene	0.0800	0.0593	74.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0535	66.9	47.0-125	
Fluoranthene	0.0800	0.0537	67.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3841692-1 09/24/22 12:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0578	72.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0522	65.3	46.0-125	
Naphthalene	0.0800	0.0563	70.4	50.0-120	
Phenanthrene	0.0800	0.0552	69.0	47.0-120	
Pyrene	0.0800	0.0627	78.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0585	73.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0561	70.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0585	73.1	50.0-120	
(S) Nitrobenzene-d5			*85.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*102*	*34.0-125*	
(S) p-Terphenyl-d14			*128*	*23.0-120*	J1

L1537296-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537296-01 09/24/22 15:27 • (MS) R3841692-3 09/24/22 15:44 • (MSD) R3841692-4 09/24/22 16:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0768	U	0.0459	0.0486	59.8	61.7	1	10.0-145			5.71	30
Acenaphthene	0.0768	U	0.0508	0.0529	66.1	67.1	1	14.0-127			4.05	27
Acenaphthylene	0.0768	U	0.0504	0.0520	65.6	66.0	1	21.0-124			3.13	25
Benzo(a)anthracene	0.0768	U	0.0495	0.0519	64.5	65.9	1	10.0-139			4.73	30
Benzo(a)pyrene	0.0768	U	0.0499	0.0514	65.0	65.2	1	10.0-141			2.96	31
Benzo(b)fluoranthene	0.0768	U	0.0542	0.0531	70.6	67.4	1	10.0-140			2.05	36
Benzo(g,h,i)perylene	0.0768	U	0.0507	0.0504	66.0	64.0	1	10.0-140			0.593	33
Benzo(k)fluoranthene	0.0768	U	0.0529	0.0513	68.9	65.1	1	10.0-137			3.07	31
Chrysene	0.0768	U	0.0523	0.0543	68.1	68.9	1	10.0-145			3.75	30
Dibenz(a,h)anthracene	0.0768	U	0.0483	0.0481	62.9	61.0	1	10.0-132			0.415	31
Fluoranthene	0.0768	U	0.0495	0.0510	64.5	64.7	1	10.0-153			2.99	33
Fluorene	0.0768	U	0.0523	0.0550	68.1	69.8	1	11.0-130			5.03	29
Indeno(1,2,3-cd)pyrene	0.0768	U	0.0481	0.0473	62.6	60.0	1	10.0-137			1.68	32
Naphthalene	0.0768	U	0.0512	0.0521	66.7	66.1	1	10.0-135			1.74	27
Phenanthrene	0.0768	U	0.0502	0.0516	65.4	65.5	1	10.0-144			2.75	31
Pyrene	0.0768	U	0.0560	0.0587	72.9	74.5	1	10.0-148			4.71	35
1-Methylnaphthalene	0.0768	U	0.0538	0.0542	70.1	68.8	1	10.0-142			0.741	28
2-Methylnaphthalene	0.0768	U	0.0492	0.0507	64.1	64.3	1	10.0-137			3.00	28
2-Chloronaphthalene	0.0768	U	0.0533	0.0538	69.4	68.3	1	29.0-120			0.934	24
(S) Nitrobenzene-d5					*84.9*	*85.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*97.6*	*95.4*		*34.0-125*				
(S) p-Terphenyl-d14					*120*	*122*		*23.0-120*		J1		

Method Blank (MB)

(MB) R3841709-2 09/24/22 12:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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) Nitrobenzene-d5	*122*			*14.0-149*
(S) 2-Fluorobiphenyl	*104*			*34.0-125*
(S) p-Terphenyl-d14	*108*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3841709-1 09/24/22 12:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0557	69.6	50.0-126	
Acenaphthene	0.0800	0.0558	69.8	50.0-120	
Acenaphthylene	0.0800	0.0565	70.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0563	70.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0501	62.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0525	65.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0522	65.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0513	64.1	49.0-125	
Chrysene	0.0800	0.0549	68.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0509	63.6	47.0-125	
Fluoranthene	0.0800	0.0575	71.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3841709-1 09/24/22 12:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0567	70.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0540	67.5	46.0-125	
Naphthalene	0.0800	0.0545	68.1	50.0-120	
Phenanthrene	0.0800	0.0537	67.1	47.0-120	
Pyrene	0.0800	0.0568	71.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0564	70.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0592	74.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0536	67.0	50.0-120	
(S) Nitrobenzene-d5			*116*	*14.0-149*	
(S) 2-Fluorobiphenyl			*100*	*34.0-125*	
(S) p-Terphenyl-d14			*102*	*23.0-120*	

L1537977-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537977-05 09/24/22 14:18 • (MS) R3841709-3 09/24/22 14:36 • (MSD) R3841709-4 09/24/22 14:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0819	U	0.0498	0.0399	60.8	48.9	1	10.0-145			22.1	30
Acenaphthene	0.0819	U	0.0508	0.0433	62.0	53.2	1	14.0-127			15.8	27
Acenaphthylene	0.0819	U	0.0504	0.0429	61.4	52.6	1	21.0-124			16.0	25
Benzo(a)anthracene	0.0819	U	0.0502	0.0423	61.3	51.9	1	10.0-139			17.2	30
Benzo(a)pyrene	0.0819	U	0.0509	0.0418	62.1	51.3	1	10.0-141			19.5	31
Benzo(b)fluoranthene	0.0819	U	0.0478	0.0387	58.3	47.5	1	10.0-140			20.9	36
Benzo(g,h,i)perylene	0.0819	U	0.0428	0.0346	52.2	42.5	1	10.0-140			21.2	33
Benzo(k)fluoranthene	0.0819	U	0.0465	0.0392	56.7	48.1	1	10.0-137			16.9	31
Chrysene	0.0819	U	0.0500	0.0422	61.1	51.7	1	10.0-145			17.1	30
Dibenz(a,h)anthracene	0.0819	U	0.0436	0.0360	53.2	44.2	1	10.0-132			19.0	31
Fluoranthene	0.0819	U	0.0513	0.0428	62.6	52.5	1	10.0-153			18.1	33
Fluorene	0.0819	U	0.0512	0.0430	62.5	52.8	1	11.0-130			17.4	29
Indeno(1,2,3-cd)pyrene	0.0819	U	0.0453	0.0366	55.3	44.8	1	10.0-137			21.3	32
Naphthalene	0.0819	U	0.0515	0.0422	62.9	51.7	1	10.0-135			20.0	27
Phenanthrene	0.0819	U	0.0487	0.0407	59.5	49.9	1	10.0-144			18.1	31
Pyrene	0.0819	U	0.0523	0.0447	63.8	54.9	1	10.0-148			15.6	35
1-Methylnaphthalene	0.0819	U	0.0537	0.0444	65.5	54.5	1	10.0-142			18.9	28
2-Methylnaphthalene	0.0819	U	0.0546	0.0445	66.6	54.6	1	10.0-137			20.2	28
2-Chloronaphthalene	0.0819	U	0.0485	0.0402	59.2	49.3	1	29.0-120			18.7	24
(S) Nitrobenzene-d5					*99.7*	*82.7*		*14.0-149*				
(S) 2-Fluorobiphenyl					*86.2*	*74.0*		*34.0-125*				
(S) p-Terphenyl-d14					*91.9*	*77.9*		*23.0-120*				

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.
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.

GLOSSARY OF TERMS

Qualifier	Description
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
Apex Companies, LLC - Portland, OR

801 NW 42nd St
Ste 204
Seattle. WA 98107

Billing Information:
Accounts Payable
3015 SW First Ave.
Portland, OR 97201-4707

Pres Chk

Report to:
Anders Utter

Email To:
kelsi.evans@apexcos.com;Anders.Utter@apexc

Project Description:
Dagmars Marina LSI Sampling

City/State Collected: Everett, WA

Please Circle: (PT) MT CT ET

Phone: 503-924-4704

Client Project #
Alt021-0313032-22008149

Lab Project #
ASHCREPOR-DAGMARINA

Collected by (print):
Corey Stout

Site/Facility ID #
Dagmars Marina

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

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
Standard TAT

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX no silica 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8+Cu,Ni,Zn 6020 8ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
Outfall -1	comp	SS	0.5'	9-14-22	0950	1	X		X	X	X			-01
Outfall- 2	comp	SS	0.5'		1010									-02
Outfall-3	comp	SS	0.5'		1025									-03
Outfall-4	comp	SS	0.5'		1040									-04
Outfall-5	comp	SS	0.5'		1100									-05
Outfall- 9	comp	SS	0.5'		0900									-06
Outfall-11	comp	SS	0.5'		1520									-07
Outfall-12	Comp	SS	0.5'		1550									-08
Outfall-13	Comp	SS	0.5'		1600									-09
Slough-1	Comp	SS	1'		1200									-10

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCL / MeoH TBR
Corey Stout	9/19/22	1000		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: RR AC °C 0.3+0=0.3 Bottles Received: 35
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Caleb Tar	Date: 9/20/22 Time: 09:15

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Chain of Custody Page 1 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 # 1537694
1019

Acctnum: ASHCREPOR
Template: T216034
Prelogin: P949906
PM: 110 - Brian Ford
PB:

Shipped Via:

Company Name/Address:
Apex Companies, LLC - Portland, OR

801 NW 42nd St
Ste 204
Seattle. WA 98107

Billing Information:
Accounts Payable
3015 SW First Ave.
Portland, OR 97201-4707

Pres Chk

Report to:
Anders Utter

Email To:
kelsi.evans@apexcos.com;Anders.Utter@apexc

Project Description:
Dagmars Marina LSI Sampling

City/State Collected: **Everett, WA**

Please Circle: (PT) MT CT ET

Phone: **503-924-4704**

Client Project # A1t021-0313032-2000814g Dagmars Mar (CS)

Lab Project # **ASHCREPOR-DAGMARINA**

Collected by (print): **Corey Stout**

Site/Facility ID # **Dagmars Marina**

P.O. #

Collected by (signature): Corey Stout

Immediately Packed on Ice N ___ Y X

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: **Standard TAT**

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX no silica 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8+Cu,Ni,Zn 6020 8ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH10ml/Syr	NWTPH DRO and RRO, no silica				Remarks	Sample # (lab only)
Slough-2	Comp	SS	1'	9-14-22	1215	1	X		X	X	X							-11
Slough-3	Comp	SS	1'	9-14-22	1230	1	X		X	X	X							-12
Slough-4	Comp	SS	1'	9-14-22	1245	1	X		X	X	X							-13
MW-1-10'	grab	SS	10'	9-15-22	1200	1					X							-14
Shop-1-2.5'		SS	2.5'		1330	1				*	*		X					-15
Shop-1-5'		SS	5'		1345	1				*	*		X					-16
Shop-2-2.5'		SS	2.5'		1410	1				*	*		X					-17
Shop-2-5'		SS	5'		1420	1				*	*		X					-18
AST-1-5'		SS	5'		1500	2		X					X					-19
AST-1-10'		SS	10'		1510	2		X					X					-20

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 # 153769

Table #

Acctnum: **ASHCREPOR**
Template: **T216034**
Prelogin: **P949906**
PM: **110 - Brian Ford**
PB:

Shipped Via:

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

Remarks: * Sample w/ highest concentration of TPH will also be analyzed for PCBs + RCRA8+Cu,Ni,Zn.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Corey Stout	9/19/22	1000			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: RB 4.6 °C 0.8+0=0.8	Bottles Received: 35
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Caleb TBR	Date: 9/20/22	Time: 09:15

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Apex Companies, LLC - Portland, OR

801 NW 42nd St
Ste 204
Seattle. WA 98107

Billing Information:
Accounts Payable
3015 SW First Ave.
Portland, OR 97201-4707

Pres Chk

Report to: **Anders Utter**

Email To: kelsi.evans@apexcos.com;Anders.Utter@apexc

Project Description: **Dagmars Marina LSI Sampling**

City/State Collected: **Everett, WA**

Please Circle: (PT) MT CT ET

Phone: **503-924-4704**

Client Project # **A1t021-0313032-22008149**

Lab Project # **ASHCREPOR-DAGMARINA**

Collected by (print): **Corey Stout**

Site/Facility ID # **Dagmars Marina**

P.O. #

Collected by (signature): Corey Stout

Immediately Packed on Ice N ___ Y X

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: **Standard TAT**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX no silica 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8+Cu,Ni,Zn 6020 8ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH10ml/Syr	NWTPH DRO and RRO, no silica				Remarks	Sample # (lab only)
AST-2-3'	grab	SS	3'	9-15-22	1530	2		X					X					-21
AST-2-10'		SS	10'		1540	2		X					X					-22
AST-3-5'		SS	5'		1430	2		X					X					-23
AST-3-10'		SS	10'		1440	2		X					X					-24
Barn-1-3.5'		SS	3.5'		1605	1							X					-25
Vault-1-7'		SS	7'		1700	1							X					-26
Vault-1-15'		SS	15'		1710	1							X					-27
Vault-2-7'		SS	7'		1630	1							X					-28
Vault-2-15'		SS	15'		1640	1							X					-29
		SS																

Analysis / Container / Preservative

Chain of Custody Page 3 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 # 153699

Table #

Acctnum: ASHCREPOR

Template: T216034

Prelogin: P949906

PM: 110 - Brian Ford

PB:

Shipped Via:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Corey Stout	9/19/22	1000		1	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: RR Ab 0.6 to 0.8 35	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Caleb Tapp	Date: 9/20/22 Time: 09:15	Hold: Condition: NCF / OK

ANALYTICAL REPORT

October 17, 2022

Apex Companies, LLC - Portland, OR

Sample Delivery Group:	L1541696
Samples Received:	09/30/2022
Project Number:	
Description:	Dagmar Marina, 1871 Ross ave. ALT021-0313032-22008149
Site:	DAGMAR MARINA
Report To:	Anders Utter
	3015 SW First Avenue
	Portland, OR 97201-4707

Entire Report Reviewed By:

Brian Ford

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

TABLE OF CONTENTS

SB-01 (9.5-10) L1541696-02 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 11:34 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1937366	1	10/05/22 07:55	10/05/22 08:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:42	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 10:56	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 13:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25.3	10/04/22 18:47	10/05/22 02:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 10:54	JAS	Mt. Juliet, TN

SB-01 (15.4-15) L1541696-03 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 11:45 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936519	1	10/04/22 08:27	10/04/22 08:32	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:49	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 10:59	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 13:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	09/28/22 11:45	10/05/22 03:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 11:54	JAS	Mt. Juliet, TN

SB-02 (4.5-5) L1541696-04 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 10:30 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936519	1	10/04/22 08:27	10/04/22 08:32	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	10/04/22 18:47	10/05/22 03:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 11:07	JAS	Mt. Juliet, TN

SB-02 (14.5-15) L1541696-06 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 12:00 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936519	1	10/04/22 08:27	10/04/22 08:32	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25.3	10/04/22 18:47	10/05/22 03:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 15:33	JDG	Mt. Juliet, TN

SB-03 (4.5-5) L1541696-07 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 11:15 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936519	1	10/04/22 08:27	10/04/22 08:32	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	10/04/22 18:47	10/05/22 04:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 10:41	JAS	Mt. Juliet, TN

SB-03 (13-13.5) L1541696-09 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 12:40 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	10/04/22 18:47	10/05/22 04:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 10:54	JAS	Mt. Juliet, TN

SB-04 (4.5-5) L1541696-10 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 12:12 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	10/04/22 18:47	10/05/22 04:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1939815	1	10/04/22 18:47	10/09/22 18:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 10:15	JAS	Mt. Juliet, TN

SB-04 (9.5-10) L1541696-11 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 12:52 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:52	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 11:02	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 13:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	29.5	09/28/22 12:52	10/05/22 05:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1939815	1.18	09/28/22 12:52	10/09/22 18:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 11:40	JAS	Mt. Juliet, TN

SB-04 (13-14) L1541696-12 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 13:00 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	09/28/22 13:00	10/05/22 05:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1939815	1	09/28/22 13:00	10/09/22 19:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 11:20	JAS	Mt. Juliet, TN

SB-05 (4.5-5) L1541696-13 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 13:30 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25.3	10/04/22 18:47	10/05/22 06:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1939051	1	10/07/22 17:39	10/08/22 12:07	JAS	Mt. Juliet, TN

SB-05 (9-10) L1541696-14 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 14:05 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1937366	1	10/05/22 07:55	10/05/22 08:02	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25.3	10/04/22 18:47	10/05/22 06:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	1	10/11/22 14:15	10/11/22 21:31	KAP	Mt. Juliet, TN

SB-06 (4.5-5) L1541696-16 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 14:12 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25.3	10/04/22 18:47	10/05/22 06:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	1	10/11/22 14:15	10/11/22 22:27	KAP	Mt. Juliet, TN

SB-06 (9-10) L1541696-17 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 14:30 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1937366	1	10/05/22 07:55	10/05/22 08:02	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1937328	25	10/04/22 18:47	10/05/22 07:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	1	10/11/22 14:15	10/11/22 18:42	KAP	Mt. Juliet, TN

GW4 L1541696-19 GW

Collected by: Hannah Hiscox | Collected date/time: 09/28/22 15:12 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1938089	1	10/06/22 13:28	10/06/22 13:28	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1939266	1	10/08/22 02:41	10/08/22 02:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1938804	150	10/07/22 08:34	10/14/22 17:04	MWS	Mt. Juliet, TN

OUTFALL-6 L1541696-20 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/27/22 12:16 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:54	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 11:06	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 13:22	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	1	10/11/22 14:15	10/11/22 22:55	KAP	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1938038	1	10/06/22 04:37	10/06/22 18:26	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1938180	1	10/07/22 04:05	10/08/22 15:03	AMG	Mt. Juliet, TN

OUTFALL-7 L1541696-21 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/27/22 11:33 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:57	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 11:09	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/13/22 17:14	10/14/22 13:25	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	2	10/11/22 14:15	10/12/22 10:00	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1938038	1	10/06/22 04:37	10/06/22 18:35	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1938180	1	10/07/22 04:05	10/08/22 16:46	AMG	Mt. Juliet, TN

OUTFALL-8 L1541696-22 Solid

Collected by: Hannah Hiscox | Collected date/time: 09/27/22 11:54 | Received date/time: 09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1936520	1	10/04/22 08:19	10/04/22 08:25	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1938171	1	10/06/22 08:42	10/07/22 08:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/12/22 18:20	10/14/22 11:12	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1937119	5	10/12/22 18:20	10/14/22 13:29	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1940510	1	10/11/22 14:15	10/11/22 23:09	KAP	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1938038	1	10/06/22 04:37	10/06/22 18:44	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1938180	1	10/07/22 04:05	10/08/22 16:29	AMG	Mt. Juliet, TN

CASE NARRATIVE

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

Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.3		1	10/05/2022 08:02	WG1937366

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0623	J3 J5 O1	0.0260	0.0577	1	10/07/2022 08:42	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	14.6		0.144	1.44	5	10/14/2022 10:56	WG1937119
Barium	54.0		0.219	3.61	5	10/14/2022 13:05	WG1937119
Cadmium	0.218	J	0.123	1.44	5	10/14/2022 10:56	WG1937119
Chromium	52.7		0.427	7.21	5	10/14/2022 10:56	WG1937119
Copper	49.8		0.190	7.21	5	10/14/2022 10:56	WG1937119
Lead	9.71		0.143	2.89	5	10/14/2022 10:56	WG1937119
Nickel	49.6		0.284	3.61	5	10/14/2022 10:56	WG1937119
Selenium	0.490	J	0.260	3.61	5	10/14/2022 10:56	WG1937119
Silver	U		0.125	0.721	5	10/14/2022 10:56	WG1937119
Zinc	69.5		1.07	36.1	5	10/14/2022 10:56	WG1937119

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.62	4.76	25.3	10/05/2022 02:37	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 02:37*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.68	J	1.92	5.77	1	10/08/2022 10:54	WG1939051
Residual Range Organics (RRO)	11.6	J	4.80	14.4	1	10/08/2022 10:54	WG1939051
(S) o-Terphenyl	*70.7*			*18.0-148*		*10/08/2022 10:54*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.1		1	10/04/2022 08:32	WG1936519

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0225	0.0499	1	10/07/2022 08:49	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.26		0.125	1.25	5	10/14/2022 10:59	WG1937119
Barium	31.5		0.190	3.12	5	10/14/2022 13:08	WG1937119
Cadmium	U		0.107	1.25	5	10/14/2022 10:59	WG1937119
Chromium	22.6		0.370	6.24	5	10/14/2022 10:59	WG1937119
Copper	15.3		0.165	6.24	5	10/14/2022 10:59	WG1937119
Lead	3.58		0.124	2.50	5	10/14/2022 10:59	WG1937119
Nickel	24.7		0.246	3.12	5	10/14/2022 10:59	WG1937119
Selenium	U		0.225	3.12	5	10/14/2022 10:59	WG1937119
Silver	U		0.108	0.624	5	10/14/2022 10:59	WG1937119
Zinc	37.4		0.924	31.2	5	10/14/2022 10:59	WG1937119

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	5.97		1.31	3.87	25	10/05/2022 03:00	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 03:00*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.66	4.99	1	10/08/2022 11:54	WG1939051
Residual Range Organics (RRO)	4.83	J	4.16	12.5	1	10/08/2022 11:54	WG1939051
(S) o-Terphenyl	*81.7*			*18.0-148*		*10/08/2022 11:54*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	52.7		1	10/04/2022 08:32	WG1936519

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	25.3		2.37	6.99	25	10/05/2022 03:23	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-120*		*10/05/2022 03:23*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	25.1		2.53	7.60	1	10/08/2022 11:07	WG1939051
Residual Range Organics (RRO)	144		6.32	19.0	1	10/08/2022 11:07	WG1939051
(S) o-Terphenyl	*39.6*			*18.0-148*		*10/08/2022 11:07*	WG1939051

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.7		1	10/04/2022 08:32	WG1936519

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.44	4.24	25.3	10/05/2022 03:45	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/05/2022 03:45*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.50	J	1.78	5.36	1	10/08/2022 15:33	WG1939051
Residual Range Organics (RRO)	11.5	J	4.46	13.4	1	10/08/2022 15:33	WG1939051
(S) o-Terphenyl	*66.6*			*18.0-148*		*10/08/2022 15:33*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.2		1	10/04/2022 08:32	WG1936519

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.60	4.72	25	10/05/2022 04:08	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/05/2022 04:08*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	10.3		1.92	5.78	1	10/08/2022 10:41	WG1939051
Residual Range Organics (RRO)	58.4		4.81	14.4	1	10/08/2022 10:41	WG1939051
(S) o-Terphenyl	*49.4*			*18.0-148*		*10/08/2022 10:41*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.3		1	10/04/2022 08:25	WG1936520

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.96	5.79	25	10/05/2022 04:30	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 04:30*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.57	J	2.20	6.63	1	10/08/2022 10:54	WG1939051
Residual Range Organics (RRO)	49.4		5.52	16.6	1	10/08/2022 10:54	WG1939051
(S) o-Terphenyl	*41.7*			*18.0-148*		*10/08/2022 10:54*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.2		1	10/04/2022 08:25	WG1936520

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.47	4.33	25	10/05/2022 04:53	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/05/2022 04:53*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0632	0.0866	1	10/09/2022 18:28	WG1939815
Acrylonitrile	U		0.00625	0.0216	1	10/09/2022 18:28	WG1939815
Benzene	U		0.000809	0.00173	1	10/09/2022 18:28	WG1939815
Bromobenzene	U		0.00156	0.0216	1	10/09/2022 18:28	WG1939815
Bromodichloromethane	U		0.00126	0.00433	1	10/09/2022 18:28	WG1939815
Bromoform	U		0.00203	0.0433	1	10/09/2022 18:28	WG1939815
Bromomethane	U	C3	0.00341	0.0216	1	10/09/2022 18:28	WG1939815
n-Butylbenzene	U		0.00909	0.0216	1	10/09/2022 18:28	WG1939815
sec-Butylbenzene	U		0.00499	0.0216	1	10/09/2022 18:28	WG1939815
tert-Butylbenzene	U		0.00338	0.00866	1	10/09/2022 18:28	WG1939815
Carbon tetrachloride	U		0.00156	0.00866	1	10/09/2022 18:28	WG1939815
Chlorobenzene	U		0.000364	0.00433	1	10/09/2022 18:28	WG1939815
Chlorodibromomethane	U		0.00106	0.00433	1	10/09/2022 18:28	WG1939815
Chloroethane	U		0.00294	0.00866	1	10/09/2022 18:28	WG1939815
Chloroform	U		0.00178	0.00433	1	10/09/2022 18:28	WG1939815
Chloromethane	U	C3 J3 J4	0.00753	0.0216	1	10/09/2022 18:28	WG1939815
2-Chlorotoluene	U		0.00150	0.00433	1	10/09/2022 18:28	WG1939815
4-Chlorotoluene	U		0.000779	0.00866	1	10/09/2022 18:28	WG1939815
1,2-Dibromo-3-Chloropropane	U		0.00675	0.0433	1	10/09/2022 18:28	WG1939815
1,2-Dibromoethane	U		0.00112	0.00433	1	10/09/2022 18:28	WG1939815
Dibromomethane	U		0.00130	0.00866	1	10/09/2022 18:28	WG1939815
1,2-Dichlorobenzene	U		0.000736	0.00866	1	10/09/2022 18:28	WG1939815
1,3-Dichlorobenzene	U		0.00104	0.00866	1	10/09/2022 18:28	WG1939815
1,4-Dichlorobenzene	U		0.00121	0.00866	1	10/09/2022 18:28	WG1939815
Dichlorodifluoromethane	U	C3 J3 J4	0.00279	0.00433	1	10/09/2022 18:28	WG1939815
1,1-Dichloroethane	U		0.000850	0.00433	1	10/09/2022 18:28	WG1939815
1,2-Dichloroethane	U		0.00112	0.00433	1	10/09/2022 18:28	WG1939815
1,1-Dichloroethene	U		0.00105	0.00433	1	10/09/2022 18:28	WG1939815
cis-1,2-Dichloroethene	U		0.00127	0.00433	1	10/09/2022 18:28	WG1939815
trans-1,2-Dichloroethene	U		0.00180	0.00866	1	10/09/2022 18:28	WG1939815
1,2-Dichloropropane	U		0.00246	0.00866	1	10/09/2022 18:28	WG1939815
1,1-Dichloropropene	U		0.00140	0.00433	1	10/09/2022 18:28	WG1939815
1,3-Dichloropropane	U		0.000868	0.00866	1	10/09/2022 18:28	WG1939815
cis-1,3-Dichloropropene	U		0.00131	0.00433	1	10/09/2022 18:28	WG1939815
trans-1,3-Dichloropropene	U		0.00197	0.00866	1	10/09/2022 18:28	WG1939815
2,2-Dichloropropane	U		0.00239	0.00433	1	10/09/2022 18:28	WG1939815
Di-isopropyl ether	U		0.000710	0.00173	1	10/09/2022 18:28	WG1939815
Ethylbenzene	U		0.00128	0.00433	1	10/09/2022 18:28	WG1939815
Hexachloro-1,3-butadiene	U		0.0104	0.0433	1	10/09/2022 18:28	WG1939815
Isopropylbenzene	U		0.000736	0.00433	1	10/09/2022 18:28	WG1939815
p-Isopropyltoluene	U		0.00442	0.00866	1	10/09/2022 18:28	WG1939815
2-Butanone (MEK)	U		0.110	0.173	1	10/09/2022 18:28	WG1939815
Methylene Chloride	U		0.0115	0.0433	1	10/09/2022 18:28	WG1939815
4-Methyl-2-pentanone (MIBK)	U		0.00395	0.0433	1	10/09/2022 18:28	WG1939815

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
Methyl tert-butyl ether	U		0.000606	0.00173	1	10/09/2022 18:28	WG1939815
Naphthalene	U		0.00845	0.0216	1	10/09/2022 18:28	WG1939815
n-Propylbenzene	U		0.00165	0.00866	1	10/09/2022 18:28	WG1939815
Styrene	0.00303	B J	0.000397	0.0216	1	10/09/2022 18:28	WG1939815
1,1,1,2-Tetrachloroethane	U		0.00164	0.00433	1	10/09/2022 18:28	WG1939815
1,1,2,2-Tetrachloroethane	U		0.00120	0.00433	1	10/09/2022 18:28	WG1939815
1,1,2-Trichlorotrifluoroethane	U		0.00131	0.00433	1	10/09/2022 18:28	WG1939815
Tetrachloroethene	U		0.00155	0.00433	1	10/09/2022 18:28	WG1939815
Toluene	0.00234	J	0.00225	0.00866	1	10/09/2022 18:28	WG1939815
1,2,3-Trichlorobenzene	U		0.0127	0.0216	1	10/09/2022 18:28	WG1939815
1,2,4-Trichlorobenzene	U		0.00762	0.0216	1	10/09/2022 18:28	WG1939815
1,1,1-Trichloroethane	U		0.00160	0.00433	1	10/09/2022 18:28	WG1939815
1,1,2-Trichloroethane	U		0.00103	0.00433	1	10/09/2022 18:28	WG1939815
Trichloroethene	U		0.00101	0.00173	1	10/09/2022 18:28	WG1939815
Trichlorofluoromethane	U	J3	0.00143	0.00433	1	10/09/2022 18:28	WG1939815
1,2,3-Trichloropropane	U		0.00281	0.0216	1	10/09/2022 18:28	WG1939815
1,2,4-Trimethylbenzene	U		0.00274	0.00866	1	10/09/2022 18:28	WG1939815
1,2,3-Trimethylbenzene	U		0.00274	0.00866	1	10/09/2022 18:28	WG1939815
1,3,5-Trimethylbenzene	U		0.00346	0.00866	1	10/09/2022 18:28	WG1939815
Vinyl chloride	U	J3	0.00201	0.00433	1	10/09/2022 18:28	WG1939815
Xylenes, Total	U		0.00152	0.0113	1	10/09/2022 18:28	WG1939815
(S) Toluene-d8	*102*			*75.0-131*		*10/09/2022 18:28*	WG1939815
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*10/09/2022 18:28*	WG1939815
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*10/09/2022 18:28*	WG1939815

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.82	5.46	1	10/08/2022 10:15	WG1939051
Residual Range Organics (RRO)	11.7	J	4.55	13.7	1	10/08/2022 10:15	WG1939051
(S) o-Terphenyl	*63.5*			*18.0-148*		*10/08/2022 10:15*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	55.2		1	10/04/2022 08:25	WG1936520

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0546	J	0.0326	0.0725	1	10/07/2022 08:52	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.2		0.181	1.81	5	10/14/2022 11:02	WG1937119
Barium	60.0		0.275	4.53	5	10/14/2022 13:12	WG1937119
Cadmium	U		0.155	1.81	5	10/14/2022 11:02	WG1937119
Chromium	72.9		0.536	9.06	5	10/14/2022 11:02	WG1937119
Copper	35.9		0.239	9.06	5	10/14/2022 11:02	WG1937119
Lead	8.27		0.179	3.62	5	10/14/2022 11:02	WG1937119
Nickel	54.1		0.357	4.53	5	10/14/2022 11:02	WG1937119
Selenium	0.656	J	0.326	4.53	5	10/14/2022 11:02	WG1937119
Silver	U		0.157	0.906	5	10/14/2022 11:02	WG1937119
Zinc	75.0		1.34	45.3	5	10/14/2022 11:02	WG1937119

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		2.50	7.38	29.5	10/05/2022 05:15	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/05/2022 05:15*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.108	0.148	1.18	10/09/2022 18:46	WG1939815
Acrylonitrile	U		0.0107	0.0368	1.18	10/09/2022 18:46	WG1939815
Benzene	U		0.00138	0.00295	1.18	10/09/2022 18:46	WG1939815
Bromobenzene	U		0.00265	0.0368	1.18	10/09/2022 18:46	WG1939815
Bromodichloromethane	U		0.00214	0.00738	1.18	10/09/2022 18:46	WG1939815
Bromoform	U		0.00345	0.0738	1.18	10/09/2022 18:46	WG1939815
Bromomethane	U	C3	0.00580	0.0368	1.18	10/09/2022 18:46	WG1939815
n-Butylbenzene	U		0.0155	0.0368	1.18	10/09/2022 18:46	WG1939815
sec-Butylbenzene	U		0.00850	0.0368	1.18	10/09/2022 18:46	WG1939815
tert-Butylbenzene	U		0.00575	0.0148	1.18	10/09/2022 18:46	WG1939815
Carbon tetrachloride	U		0.00265	0.0148	1.18	10/09/2022 18:46	WG1939815
Chlorobenzene	U		0.000620	0.00738	1.18	10/09/2022 18:46	WG1939815
Chlorodibromomethane	U		0.00181	0.00738	1.18	10/09/2022 18:46	WG1939815
Chloroethane	U		0.00503	0.0148	1.18	10/09/2022 18:46	WG1939815
Chloroform	U		0.00305	0.00738	1.18	10/09/2022 18:46	WG1939815
Chloromethane	U	C3 J3 J4	0.0128	0.0368	1.18	10/09/2022 18:46	WG1939815
2-Chlorotoluene	U		0.00255	0.00738	1.18	10/09/2022 18:46	WG1939815
4-Chlorotoluene	U		0.00133	0.0148	1.18	10/09/2022 18:46	WG1939815
1,2-Dibromo-3-Chloropropane	U		0.0115	0.0738	1.18	10/09/2022 18:46	WG1939815
1,2-Dibromoethane	U		0.00191	0.00738	1.18	10/09/2022 18:46	WG1939815
Dibromomethane	U		0.00221	0.0148	1.18	10/09/2022 18:46	WG1939815
1,2-Dichlorobenzene	U		0.00126	0.0148	1.18	10/09/2022 18:46	WG1939815
1,3-Dichlorobenzene	U		0.00177	0.0148	1.18	10/09/2022 18:46	WG1939815
1,4-Dichlorobenzene	U		0.00207	0.0148	1.18	10/09/2022 18:46	WG1939815

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
Dichlorodifluoromethane	U	C3 J3 J4	0.00475	0.00738	1.18	10/09/2022 18:46	WG1939815
1,1-Dichloroethane	U		0.00145	0.00738	1.18	10/09/2022 18:46	WG1939815
1,2-Dichloroethane	U		0.00192	0.00738	1.18	10/09/2022 18:46	WG1939815
1,1-Dichloroethene	U		0.00179	0.00738	1.18	10/09/2022 18:46	WG1939815
cis-1,2-Dichloroethene	U		0.00217	0.00738	1.18	10/09/2022 18:46	WG1939815
trans-1,2-Dichloroethene	U		0.00308	0.0148	1.18	10/09/2022 18:46	WG1939815
1,2-Dichloropropane	U		0.00420	0.0148	1.18	10/09/2022 18:46	WG1939815
1,1-Dichloropropene	U		0.00239	0.00738	1.18	10/09/2022 18:46	WG1939815
1,3-Dichloropropane	U		0.00148	0.0148	1.18	10/09/2022 18:46	WG1939815
cis-1,3-Dichloropropene	U		0.00223	0.00738	1.18	10/09/2022 18:46	WG1939815
trans-1,3-Dichloropropene	U		0.00338	0.0148	1.18	10/09/2022 18:46	WG1939815
2,2-Dichloropropane	U		0.00408	0.00738	1.18	10/09/2022 18:46	WG1939815
Di-isopropyl ether	U		0.00121	0.00295	1.18	10/09/2022 18:46	WG1939815
Ethylbenzene	U		0.00218	0.00738	1.18	10/09/2022 18:46	WG1939815
Hexachloro-1,3-butadiene	U		0.0177	0.0738	1.18	10/09/2022 18:46	WG1939815
Isopropylbenzene	U		0.00126	0.00738	1.18	10/09/2022 18:46	WG1939815
p-Isopropyltoluene	U		0.00753	0.0148	1.18	10/09/2022 18:46	WG1939815
2-Butanone (MEK)	U		0.187	0.295	1.18	10/09/2022 18:46	WG1939815
Methylene Chloride	0.104		0.0196	0.0738	1.18	10/09/2022 18:46	WG1939815
4-Methyl-2-pentanone (MIBK)	U		0.00673	0.0738	1.18	10/09/2022 18:46	WG1939815
Methyl tert-butyl ether	U		0.00103	0.00295	1.18	10/09/2022 18:46	WG1939815
Naphthalene	U		0.0144	0.0368	1.18	10/09/2022 18:46	WG1939815
n-Propylbenzene	U		0.00280	0.0148	1.18	10/09/2022 18:46	WG1939815
Styrene	U		0.000675	0.0368	1.18	10/09/2022 18:46	WG1939815
1,1,1,2-Tetrachloroethane	U		0.00280	0.00738	1.18	10/09/2022 18:46	WG1939815
1,1,2,2-Tetrachloroethane	U		0.00205	0.00738	1.18	10/09/2022 18:46	WG1939815
1,1,2-Trichlorotrifluoroethane	U		0.00223	0.00738	1.18	10/09/2022 18:46	WG1939815
Tetrachloroethene	U		0.00265	0.00738	1.18	10/09/2022 18:46	WG1939815
Toluene	0.0445		0.00383	0.0148	1.18	10/09/2022 18:46	WG1939815
1,2,3-Trichlorobenzene	U		0.0216	0.0368	1.18	10/09/2022 18:46	WG1939815
1,2,4-Trichlorobenzene	U		0.0130	0.0368	1.18	10/09/2022 18:46	WG1939815
1,1,1-Trichloroethane	U		0.00273	0.00738	1.18	10/09/2022 18:46	WG1939815
1,1,2-Trichloroethane	U		0.00176	0.00738	1.18	10/09/2022 18:46	WG1939815
Trichloroethene	U		0.00172	0.00295	1.18	10/09/2022 18:46	WG1939815
Trichlorofluoromethane	U	J3	0.00244	0.00738	1.18	10/09/2022 18:46	WG1939815
1,2,3-Trichloropropane	U		0.00478	0.0368	1.18	10/09/2022 18:46	WG1939815
1,2,4-Trimethylbenzene	U		0.00465	0.0148	1.18	10/09/2022 18:46	WG1939815
1,2,3-Trimethylbenzene	U		0.00465	0.0148	1.18	10/09/2022 18:46	WG1939815
1,3,5-Trimethylbenzene	U		0.00590	0.0148	1.18	10/09/2022 18:46	WG1939815
Vinyl chloride	U	J3	0.00343	0.00738	1.18	10/09/2022 18:46	WG1939815
Xylenes, Total	U		0.00260	0.0192	1.18	10/09/2022 18:46	WG1939815
(S) Toluene-d8	*103*			*75.0-131*		*10/09/2022 18:46*	WG1939815
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*10/09/2022 18:46*	WG1939815
(S) 1,2-Dichloroethane-d4	*90.8*			*70.0-130*		*10/09/2022 18:46*	WG1939815

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		2.41	7.25	1	10/08/2022 11:40	WG1939051
Residual Range Organics (RRO)	8.73	J	6.03	18.1	1	10/08/2022 11:40	WG1939051
(S) o-Terphenyl	*60.1*			*18.0-148*		*10/08/2022 11:40*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	54.7		1	10/04/2022 08:25	WG1936520

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		2.34	6.91	25	10/05/2022 05:38	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*		*10/05/2022 05:38*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.101	0.138	1	10/09/2022 19:05	WG1939815
Acrylonitrile	U		0.00998	0.0346	1	10/09/2022 19:05	WG1939815
Benzene	U		0.00129	0.00276	1	10/09/2022 19:05	WG1939815
Bromobenzene	U		0.00249	0.0346	1	10/09/2022 19:05	WG1939815
Bromodichloromethane	U		0.00200	0.00691	1	10/09/2022 19:05	WG1939815
Bromoform	U		0.00323	0.0691	1	10/09/2022 19:05	WG1939815
Bromomethane	U	C3	0.00545	0.0346	1	10/09/2022 19:05	WG1939815
n-Butylbenzene	U		0.0145	0.0346	1	10/09/2022 19:05	WG1939815
sec-Butylbenzene	U		0.00796	0.0346	1	10/09/2022 19:05	WG1939815
tert-Butylbenzene	U		0.00539	0.0138	1	10/09/2022 19:05	WG1939815
Carbon tetrachloride	U		0.00248	0.0138	1	10/09/2022 19:05	WG1939815
Chlorobenzene	U		0.000580	0.00691	1	10/09/2022 19:05	WG1939815
Chlorodibromomethane	U		0.00169	0.00691	1	10/09/2022 19:05	WG1939815
Chloroethane	U		0.00470	0.0138	1	10/09/2022 19:05	WG1939815
Chloroform	U		0.00285	0.00691	1	10/09/2022 19:05	WG1939815
Chloromethane	U	C3 J3 J4	0.0120	0.0346	1	10/09/2022 19:05	WG1939815
2-Chlorotoluene	U		0.00239	0.00691	1	10/09/2022 19:05	WG1939815
4-Chlorotoluene	U		0.00124	0.0138	1	10/09/2022 19:05	WG1939815
1,2-Dibromo-3-Chloropropane	U		0.0108	0.0691	1	10/09/2022 19:05	WG1939815
1,2-Dibromoethane	U		0.00179	0.00691	1	10/09/2022 19:05	WG1939815
Dibromomethane	U		0.00207	0.0138	1	10/09/2022 19:05	WG1939815
1,2-Dichlorobenzene	U		0.00117	0.0138	1	10/09/2022 19:05	WG1939815
1,3-Dichlorobenzene	U		0.00166	0.0138	1	10/09/2022 19:05	WG1939815
1,4-Dichlorobenzene	U		0.00193	0.0138	1	10/09/2022 19:05	WG1939815
Dichlorodifluoromethane	U	C3 J3 J4	0.00445	0.00691	1	10/09/2022 19:05	WG1939815
1,1-Dichloroethane	U		0.00136	0.00691	1	10/09/2022 19:05	WG1939815
1,2-Dichloroethane	U		0.00179	0.00691	1	10/09/2022 19:05	WG1939815
1,1-Dichloroethene	U		0.00168	0.00691	1	10/09/2022 19:05	WG1939815
cis-1,2-Dichloroethene	U		0.00203	0.00691	1	10/09/2022 19:05	WG1939815
trans-1,2-Dichloroethene	U		0.00287	0.0138	1	10/09/2022 19:05	WG1939815
1,2-Dichloropropane	U		0.00393	0.0138	1	10/09/2022 19:05	WG1939815
1,1-Dichloropropene	U		0.00224	0.00691	1	10/09/2022 19:05	WG1939815
1,3-Dichloropropane	U		0.00138	0.0138	1	10/09/2022 19:05	WG1939815
cis-1,3-Dichloropropene	U		0.00209	0.00691	1	10/09/2022 19:05	WG1939815
trans-1,3-Dichloropropene	U		0.00315	0.0138	1	10/09/2022 19:05	WG1939815
2,2-Dichloropropane	U		0.00381	0.00691	1	10/09/2022 19:05	WG1939815
Di-isopropyl ether	U		0.00113	0.00276	1	10/09/2022 19:05	WG1939815
Ethylbenzene	U		0.00204	0.00691	1	10/09/2022 19:05	WG1939815
Hexachloro-1,3-butadiene	U		0.0166	0.0691	1	10/09/2022 19:05	WG1939815
Isopropylbenzene	U		0.00117	0.00691	1	10/09/2022 19:05	WG1939815
p-Isopropyltoluene	U		0.00705	0.0138	1	10/09/2022 19:05	WG1939815
2-Butanone (MEK)	U		0.176	0.276	1	10/09/2022 19:05	WG1939815
Methylene Chloride	0.0777		0.0184	0.0691	1	10/09/2022 19:05	WG1939815
4-Methyl-2-pentanone (MIBK)	U		0.00630	0.0691	1	10/09/2022 19:05	WG1939815

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
Methyl tert-butyl ether	U		0.000967	0.00276	1	10/09/2022 19:05	WG1939815
Naphthalene	U		0.0135	0.0346	1	10/09/2022 19:05	WG1939815
n-Propylbenzene	U		0.00263	0.0138	1	10/09/2022 19:05	WG1939815
Styrene	U		0.000633	0.0346	1	10/09/2022 19:05	WG1939815
1,1,1,2-Tetrachloroethane	U		0.00262	0.00691	1	10/09/2022 19:05	WG1939815
1,1,2,2-Tetrachloroethane	U		0.00192	0.00691	1	10/09/2022 19:05	WG1939815
1,1,2-Trichlorotrifluoroethane	U		0.00208	0.00691	1	10/09/2022 19:05	WG1939815
Tetrachloroethene	U		0.00248	0.00691	1	10/09/2022 19:05	WG1939815
Toluene	0.00918	J	0.00359	0.0138	1	10/09/2022 19:05	WG1939815
1,2,3-Trichlorobenzene	U		0.0203	0.0346	1	10/09/2022 19:05	WG1939815
1,2,4-Trichlorobenzene	U		0.0122	0.0346	1	10/09/2022 19:05	WG1939815
1,1,1-Trichloroethane	U		0.00255	0.00691	1	10/09/2022 19:05	WG1939815
1,1,2-Trichloroethane	U		0.00165	0.00691	1	10/09/2022 19:05	WG1939815
Trichloroethene	U		0.00161	0.00276	1	10/09/2022 19:05	WG1939815
Trichlorofluoromethane	U	J3	0.00229	0.00691	1	10/09/2022 19:05	WG1939815
1,2,3-Trichloropropane	U		0.00448	0.0346	1	10/09/2022 19:05	WG1939815
1,2,4-Trimethylbenzene	U		0.00437	0.0138	1	10/09/2022 19:05	WG1939815
1,2,3-Trimethylbenzene	U		0.00437	0.0138	1	10/09/2022 19:05	WG1939815
1,3,5-Trimethylbenzene	U		0.00553	0.0138	1	10/09/2022 19:05	WG1939815
Vinyl chloride	U	J3	0.00321	0.00691	1	10/09/2022 19:05	WG1939815
Xylenes, Total	U		0.00243	0.0180	1	10/09/2022 19:05	WG1939815
(S) Toluene-d8	*103*			*75.0-131*		*10/09/2022 19:05*	WG1939815
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*10/09/2022 19:05*	WG1939815
(S) 1,2-Dichloroethane-d4	*91.4*			*70.0-130*		*10/09/2022 19:05*	WG1939815

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4.20	J	2.43	7.31	1	10/08/2022 11:20	WG1939051
Residual Range Organics (RRO)	46.4		6.09	18.3	1	10/08/2022 11:20	WG1939051
(S) o-Terphenyl	*56.4*			*18.0-148*		*10/08/2022 11:20*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	10/04/2022 08:25	WG1936520

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.33	J	1.21	3.57	25.3	10/05/2022 06:00	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*10/05/2022 06:00*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.60	4.83	1	10/08/2022 12:07	WG1939051
Residual Range Organics (RRO)	4.94	J	4.02	12.1	1	10/08/2022 12:07	WG1939051
(S) o-Terphenyl	*57.6*			*18.0-148*		*10/08/2022 12:07*	WG1939051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.2		1	10/05/2022 08:02	WG1937366

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.99	5.87	25.3	10/05/2022 06:23	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 06:23*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.21	6.65	1	10/11/2022 21:31	WG1940510
Residual Range Organics (RRO)	17.1		5.53	16.6	1	10/11/2022 21:31	WG1940510
(S) o-Terphenyl	*65.5*			*18.0-148*		*10/11/2022 21:31*	WG1940510

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.7		1	10/04/2022 08:25	WG1936520

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	3.72	J	1.64	4.83	25.3	10/05/2022 06:46	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 06:46*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.95		1.94	5.82	1	10/11/2022 22:27	WG1940510
Residual Range Organics (RRO)	19.8		4.85	14.6	1	10/11/2022 22:27	WG1940510
(S) o-Terphenyl	*70.1*			*18.0-148*		*10/11/2022 22:27*	WG1940510

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.5		1	10/05/2022 08:02	WG1937366

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		1.96	5.77	25	10/05/2022 07:08	WG1937328
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*10/05/2022 07:08*	WG1937328

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.20	6.62	1	10/11/2022 18:42	WG1940510
Residual Range Organics (RRO)	U		5.51	16.5	1	10/11/2022 18:42	WG1940510
(S) o-Terphenyl	*76.5*			*18.0-148*		*10/11/2022 18:42*	WG1940510

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	180		31.6	100	1	10/06/2022 13:28	WG1938089
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*10/06/2022 13:28*	WG1938089

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	114		0.548	1.00	1	10/08/2022 02:41	WG1939266
Acrylonitrile	U		0.0760	0.500	1	10/08/2022 02:41	WG1939266
Benzene	32.3		0.0160	0.0400	1	10/08/2022 02:41	WG1939266
Bromobenzene	U		0.0420	0.500	1	10/08/2022 02:41	WG1939266
Bromochloromethane	U		0.0452	0.200	1	10/08/2022 02:41	WG1939266
Bromodichloromethane	0.194		0.0315	0.100	1	10/08/2022 02:41	WG1939266
Bromoform	U		0.239	1.00	1	10/08/2022 02:41	WG1939266
Bromomethane	U		0.148	0.500	1	10/08/2022 02:41	WG1939266
n-Butylbenzene	U		0.153	0.500	1	10/08/2022 02:41	WG1939266
sec-Butylbenzene	U		0.101	0.500	1	10/08/2022 02:41	WG1939266
tert-Butylbenzene	U		0.0620	0.200	1	10/08/2022 02:41	WG1939266
Carbon disulfide	0.435	J	0.162	0.500	1	10/08/2022 02:41	WG1939266
Carbon tetrachloride	U		0.0432	0.200	1	10/08/2022 02:41	WG1939266
Chlorobenzene	U		0.0229	0.100	1	10/08/2022 02:41	WG1939266
Chlorodibromomethane	U		0.0180	0.100	1	10/08/2022 02:41	WG1939266
Chloroethane	U		0.0432	0.200	1	10/08/2022 02:41	WG1939266
Chloroform	2.54		0.0166	0.100	1	10/08/2022 02:41	WG1939266
Chloromethane	U	C3	0.0556	0.500	1	10/08/2022 02:41	WG1939266
2-Chlorotoluene	U		0.0368	0.100	1	10/08/2022 02:41	WG1939266
4-Chlorotoluene	U		0.0452	0.200	1	10/08/2022 02:41	WG1939266
1,2-Dibromo-3-Chloropropane	U	C3	0.204	1.00	1	10/08/2022 02:41	WG1939266
1,2-Dibromoethane	U		0.0210	0.100	1	10/08/2022 02:41	WG1939266
Dibromomethane	U		0.0400	0.200	1	10/08/2022 02:41	WG1939266
1,2-Dichlorobenzene	U		0.0580	0.200	1	10/08/2022 02:41	WG1939266
1,3-Dichlorobenzene	U		0.0680	0.200	1	10/08/2022 02:41	WG1939266
1,4-Dichlorobenzene	U		0.0788	0.200	1	10/08/2022 02:41	WG1939266
trans-1,4-Dichloro-2-butene	U		0.0560	0.200	1	10/08/2022 02:41	WG1939266
Dichlorodifluoromethane	U		0.0327	0.100	1	10/08/2022 02:41	WG1939266
1,1-Dichloroethane	U		0.0230	0.100	1	10/08/2022 02:41	WG1939266
1,2-Dichloroethane	U		0.0190	0.100	1	10/08/2022 02:41	WG1939266
1,1-Dichloroethene	U		0.0200	0.100	1	10/08/2022 02:41	WG1939266
cis-1,2-Dichloroethene	U		0.0276	0.100	1	10/08/2022 02:41	WG1939266
trans-1,2-Dichloroethene	U		0.0572	0.200	1	10/08/2022 02:41	WG1939266
1,2-Dichloropropane	U		0.0508	0.200	1	10/08/2022 02:41	WG1939266
1,1-Dichloropropene	U		0.0280	0.100	1	10/08/2022 02:41	WG1939266
1,3-Dichloropropane	U		0.0700	0.200	1	10/08/2022 02:41	WG1939266
cis-1,3-Dichloropropene	U		0.0271	0.100	1	10/08/2022 02:41	WG1939266
trans-1,3-Dichloropropene	U		0.0612	0.200	1	10/08/2022 02:41	WG1939266
2,2-Dichloropropane	U		0.0317	0.100	1	10/08/2022 02:41	WG1939266
Di-isopropyl ether	U		0.0140	0.0400	1	10/08/2022 02:41	WG1939266
Ethylbenzene	3.44		0.0212	0.100	1	10/08/2022 02:41	WG1939266
Hexachloro-1,3-butadiene	U		0.508	1.00	1	10/08/2022 02:41	WG1939266
2-Hexanone	U		0.400	1.00	1	10/08/2022 02:41	WG1939266
n-Hexane	U		0.0424	0.200	1	10/08/2022 02:41	WG1939266
Iodomethane	U	C4	0.242	0.500	1	10/08/2022 02:41	WG1939266
Isopropylbenzene	0.118		0.0345	0.100	1	10/08/2022 02:41	WG1939266
p-Isopropyltoluene	0.250		0.0932	0.200	1	10/08/2022 02:41	WG1939266
2-Butanone (MEK)	10.8		0.500	1.00	1	10/08/2022 02:41	WG1939266

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.265	1.00	1	10/08/2022 02:41	WG1939266
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00	1	10/08/2022 02:41	WG1939266
Methyl tert-butyl ether	U		0.0118	0.0400	1	10/08/2022 02:41	WG1939266
Naphthalene	13.8		0.124	0.500	1	10/08/2022 02:41	WG1939266
n-Propylbenzene	0.279		0.0472	0.200	1	10/08/2022 02:41	WG1939266
Styrene	2.10		0.109	0.500	1	10/08/2022 02:41	WG1939266
1,1,1,2-Tetrachloroethane	U		0.0200	0.100	1	10/08/2022 02:41	WG1939266
1,1,2,2-Tetrachloroethane	U		0.0156	0.100	1	10/08/2022 02:41	WG1939266
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100	1	10/08/2022 02:41	WG1939266
Tetrachloroethene	U		0.0280	0.100	1	10/08/2022 02:41	WG1939266
Toluene	37.2		0.0500	0.200	1	10/08/2022 02:41	WG1939266
1,2,3-Trichlorobenzene	U		0.0250	0.500	1	10/08/2022 02:41	WG1939266
1,2,4-Trichlorobenzene	U		0.193	0.500	1	10/08/2022 02:41	WG1939266
1,1,1-Trichloroethane	U	C4	0.0110	0.100	1	10/08/2022 02:41	WG1939266
1,1,2-Trichloroethane	U		0.0353	0.100	1	10/08/2022 02:41	WG1939266
Trichloroethene	U		0.0160	0.0400	1	10/08/2022 02:41	WG1939266
Trichlorofluoromethane	U		0.0200	0.100	1	10/08/2022 02:41	WG1939266
1,2,3-Trichloropropane	U	C3	0.204	0.500	1	10/08/2022 02:41	WG1939266
1,2,4-Trimethylbenzene	4.17		0.0464	0.200	1	10/08/2022 02:41	WG1939266
1,2,3-Trimethylbenzene	5.22		0.0460	0.200	1	10/08/2022 02:41	WG1939266
1,3,5-Trimethylbenzene	0.962		0.0432	0.200	1	10/08/2022 02:41	WG1939266
Vinyl acetate	U		0.141	0.500	1	10/08/2022 02:41	WG1939266
Vinyl chloride	U		0.0273	0.100	1	10/08/2022 02:41	WG1939266
Xylenes, Total	22.8		0.191	0.260	1	10/08/2022 02:41	WG1939266
(S) Toluene-d8	*100*			*75.0-131*		*10/08/2022 02:41*	WG1939266
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*10/08/2022 02:41*	WG1939266
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*		*10/08/2022 02:41*	WG1939266

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	15400	J J3 J4	10000	30000	150	10/14/2022 17:04	WG1938804
Residual Range Organics (RRO)	74100		12500	37500	150	10/14/2022 17:04	WG1938804
(S) o-Terphenyl	*0.000*	J7		*52.0-156*		*10/14/2022 17:04*	WG1938804

Sample Narrative:

L1541696-19 WG1938804: Duplicate Analysis performed due to surrogate failure. Results confirm; reporting in hold data

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	10/04/2022 08:25	WG1936520

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0693		0.0244	0.0543	1	10/07/2022 08:54	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	13.7		0.136	1.36	5	10/14/2022 11:06	WG1937119
Barium	57.3		0.206	3.39	5	10/14/2022 13:22	WG1937119
Cadmium	0.120	J	0.116	1.36	5	10/14/2022 11:06	WG1937119
Chromium	57.9		0.402	6.78	5	10/14/2022 11:06	WG1937119
Copper	36.2		0.179	6.78	5	10/14/2022 11:06	WG1937119
Lead	10.4		0.134	2.71	5	10/14/2022 11:06	WG1937119
Nickel	40.0		0.267	3.39	5	10/14/2022 11:06	WG1937119
Selenium	0.570	J	0.244	3.39	5	10/14/2022 11:06	WG1937119
Silver	U		0.117	0.678	5	10/14/2022 11:06	WG1937119
Zinc	85.1		1.00	33.9	5	10/14/2022 11:06	WG1937119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.79		1.80	5.43	1	10/11/2022 22:55	WG1940510
Residual Range Organics (RRO)	16.7		4.52	13.6	1	10/11/2022 22:55	WG1940510
(S) o-Terphenyl	*66.9*			*18.0-148*		*10/11/2022 22:55*	WG1940510

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0160	0.0461	1	10/06/2022 18:26	WG1938038
PCB 1221	U		0.0160	0.0461	1	10/06/2022 18:26	WG1938038
PCB 1232	U		0.0160	0.0461	1	10/06/2022 18:26	WG1938038
PCB 1242	U		0.0160	0.0461	1	10/06/2022 18:26	WG1938038
PCB 1248	U		0.0100	0.0231	1	10/06/2022 18:26	WG1938038
PCB 1254	U		0.0100	0.0231	1	10/06/2022 18:26	WG1938038
PCB 1260	U		0.0100	0.0231	1	10/06/2022 18:26	WG1938038
(S) Decachlorobiphenyl	*71.9*			*10.0-135*		*10/06/2022 18:26*	WG1938038
(S) Tetrachloro-m-xylene	*75.7*			*10.0-139*		*10/06/2022 18:26*	WG1938038

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00312	0.00814	1	10/08/2022 15:03	WG1938180
Acenaphthene	U		0.00284	0.00814	1	10/08/2022 15:03	WG1938180
Acenaphthylene	U		0.00293	0.00814	1	10/08/2022 15:03	WG1938180
Benzo(a)anthracene	U		0.00235	0.00814	1	10/08/2022 15:03	WG1938180
Benzo(a)pyrene	U		0.00243	0.00814	1	10/08/2022 15:03	WG1938180
Benzo(b)fluoranthene	U		0.00208	0.00814	1	10/08/2022 15:03	WG1938180
Benzo(g,h,i)perylene	U		0.00240	0.00814	1	10/08/2022 15:03	WG1938180
Benzo(k)fluoranthene	U		0.00292	0.00814	1	10/08/2022 15:03	WG1938180
Chrysene	U		0.00315	0.00814	1	10/08/2022 15:03	WG1938180

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00233	0.00814	1	10/08/2022 15:03	WG1938180
Fluoranthene	U		0.00308	0.00814	1	10/08/2022 15:03	WG1938180
Fluorene	U		0.00278	0.00814	1	10/08/2022 15:03	WG1938180
Indeno(1,2,3-cd)pyrene	U		0.00246	0.00814	1	10/08/2022 15:03	WG1938180
Naphthalene	U		0.00553	0.0271	1	10/08/2022 15:03	WG1938180
Phenanthrene	U		0.00313	0.00814	1	10/08/2022 15:03	WG1938180
Pyrene	U		0.00271	0.00814	1	10/08/2022 15:03	WG1938180
1-Methylnaphthalene	U		0.00609	0.0271	1	10/08/2022 15:03	WG1938180
2-Methylnaphthalene	U		0.00579	0.0271	1	10/08/2022 15:03	WG1938180
2-Chloronaphthalene	U		0.00632	0.0271	1	10/08/2022 15:03	WG1938180
(S) p-Terphenyl-d14	*70.9*			*23.0-120*		*10/08/2022 15:03*	WG1938180
(S) Nitrobenzene-d5	*79.1*			*14.0-149*		*10/08/2022 15:03*	WG1938180
(S) 2-Fluorobiphenyl	*71.6*			*34.0-125*		*10/08/2022 15:03*	WG1938180

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	10/04/2022 08:25	WG1936520

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0189	J	0.0185	0.0411	1	10/07/2022 08:57	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.94		0.103	1.03	5	10/14/2022 11:09	WG1937119
Barium	32.3		0.156	2.57	5	10/14/2022 13:25	WG1937119
Cadmium	0.129	J	0.0878	1.03	5	10/14/2022 11:09	WG1937119
Chromium	23.0		0.304	5.13	5	10/14/2022 11:09	WG1937119
Copper	17.6		0.135	5.13	5	10/14/2022 11:09	WG1937119
Lead	27.6		0.102	2.05	5	10/14/2022 11:09	WG1937119
Nickel	23.9		0.202	2.57	5	10/14/2022 11:09	WG1937119
Selenium	U		0.185	2.57	5	10/14/2022 11:09	WG1937119
Silver	U		0.0888	0.513	5	10/14/2022 11:09	WG1937119
Zinc	181		0.760	25.7	5	10/14/2022 11:09	WG1937119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	16.9		2.73	8.21	2	10/12/2022 10:00	WG1940510
Residual Range Organics (RRO)	125		6.84	20.5	2	10/12/2022 10:00	WG1940510
(S) o-Terphenyl	*66.7*			*18.0-148*		*10/12/2022 10:00*	WG1940510

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0121	0.0349	1	10/06/2022 18:35	WG1938038
PCB 1221	U		0.0121	0.0349	1	10/06/2022 18:35	WG1938038
PCB 1232	U		0.0121	0.0349	1	10/06/2022 18:35	WG1938038
PCB 1242	U		0.0121	0.0349	1	10/06/2022 18:35	WG1938038
PCB 1248	U		0.00757	0.0174	1	10/06/2022 18:35	WG1938038
PCB 1254	U		0.00757	0.0174	1	10/06/2022 18:35	WG1938038
PCB 1260	U		0.00757	0.0174	1	10/06/2022 18:35	WG1938038
(S) Decachlorobiphenyl	*64.0*			*10.0-135*		*10/06/2022 18:35*	WG1938038
(S) Tetrachloro-m-xylene	*75.7*			*10.0-139*		*10/06/2022 18:35*	WG1938038

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00236	0.00616	1	10/08/2022 16:46	WG1938180
Acenaphthene	U		0.00215	0.00616	1	10/08/2022 16:46	WG1938180
Acenaphthylene	U		0.00222	0.00616	1	10/08/2022 16:46	WG1938180
Benzo(a)anthracene	0.00262	J	0.00178	0.00616	1	10/08/2022 16:46	WG1938180
Benzo(a)pyrene	0.00341	J	0.00184	0.00616	1	10/08/2022 16:46	WG1938180
Benzo(b)fluoranthene	0.00570	J	0.00157	0.00616	1	10/08/2022 16:46	WG1938180
Benzo(g,h,i)perylene	0.00413	J	0.00182	0.00616	1	10/08/2022 16:46	WG1938180
Benzo(k)fluoranthene	U		0.00221	0.00616	1	10/08/2022 16:46	WG1938180
Chrysene	0.00335	J	0.00238	0.00616	1	10/08/2022 16:46	WG1938180

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00177	0.00616	1	10/08/2022 16:46	WG1938180
Fluoranthene	0.00604	J	0.00233	0.00616	1	10/08/2022 16:46	WG1938180
Fluorene	U		0.00210	0.00616	1	10/08/2022 16:46	WG1938180
Indeno(1,2,3-cd)pyrene	0.00320	J	0.00186	0.00616	1	10/08/2022 16:46	WG1938180
Naphthalene	U		0.00419	0.0205	1	10/08/2022 16:46	WG1938180
Phenanthrene	0.00301	J	0.00237	0.00616	1	10/08/2022 16:46	WG1938180
Pyrene	0.00569	J	0.00205	0.00616	1	10/08/2022 16:46	WG1938180
1-Methylnaphthalene	U		0.00461	0.0205	1	10/08/2022 16:46	WG1938180
2-Methylnaphthalene	U		0.00438	0.0205	1	10/08/2022 16:46	WG1938180
2-Chloronaphthalene	U		0.00478	0.0205	1	10/08/2022 16:46	WG1938180
(S) p-Terphenyl-d14	*58.3*			*23.0-120*		*10/08/2022 16:46*	WG1938180
(S) Nitrobenzene-d5	*66.1*			*14.0-149*		*10/08/2022 16:46*	WG1938180
(S) 2-Fluorobiphenyl	*58.2*			*34.0-125*		*10/08/2022 16:46*	WG1938180

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.2		1	10/04/2022 08:25	WG1936520

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0859		0.0260	0.0578	1	10/07/2022 08:59	WG1938171

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	18.0		0.144	1.44	5	10/14/2022 11:12	WG1937119
Barium	61.5		0.220	3.61	5	10/14/2022 13:29	WG1937119
Cadmium	0.208	J	0.123	1.44	5	10/14/2022 11:12	WG1937119
Chromium	64.6		0.427	7.22	5	10/14/2022 11:12	WG1937119
Copper	41.2		0.191	7.22	5	10/14/2022 11:12	WG1937119
Lead	22.6		0.143	2.89	5	10/14/2022 11:12	WG1937119
Nickel	42.4		0.285	3.61	5	10/14/2022 11:12	WG1937119
Selenium	0.831	J	0.260	3.61	5	10/14/2022 11:12	WG1937119
Silver	U		0.125	0.722	5	10/14/2022 11:12	WG1937119
Zinc	74.2		1.07	36.1	5	10/14/2022 11:12	WG1937119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	16.5		1.92	5.78	1	10/11/2022 23:09	WG1940510
Residual Range Organics (RRO)	105		4.81	14.4	1	10/11/2022 23:09	WG1940510
(S) o-Terphenyl	*54.9*			*18.0-148*		*10/11/2022 23:09*	WG1940510

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0170	0.0491	1	10/06/2022 18:44	WG1938038
PCB 1221	U		0.0170	0.0491	1	10/06/2022 18:44	WG1938038
PCB 1232	U		0.0170	0.0491	1	10/06/2022 18:44	WG1938038
PCB 1242	U		0.0170	0.0491	1	10/06/2022 18:44	WG1938038
PCB 1248	U		0.0107	0.0246	1	10/06/2022 18:44	WG1938038
PCB 1254	U		0.0107	0.0246	1	10/06/2022 18:44	WG1938038
PCB 1260	U		0.0107	0.0246	1	10/06/2022 18:44	WG1938038
(S) Decachlorobiphenyl	*72.8*			*10.0-135*		*10/06/2022 18:44*	WG1938038
(S) Tetrachloro-m-xylene	*85.1*			*10.0-139*		*10/06/2022 18:44*	WG1938038

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00332	0.00867	1	10/08/2022 16:29	WG1938180
Acenaphthene	U		0.00302	0.00867	1	10/08/2022 16:29	WG1938180
Acenaphthylene	U		0.00312	0.00867	1	10/08/2022 16:29	WG1938180
Benzo(a)anthracene	U		0.00250	0.00867	1	10/08/2022 16:29	WG1938180
Benzo(a)pyrene	U		0.00259	0.00867	1	10/08/2022 16:29	WG1938180
Benzo(b)fluoranthene	0.00615	J	0.00221	0.00867	1	10/08/2022 16:29	WG1938180
Benzo(g,h,i)perylene	0.00422	J	0.00256	0.00867	1	10/08/2022 16:29	WG1938180
Benzo(k)fluoranthene	U		0.00311	0.00867	1	10/08/2022 16:29	WG1938180
Chrysene	0.00404	J	0.00335	0.00867	1	10/08/2022 16:29	WG1938180

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00248	0.00867	1	10/08/2022 16:29	WG1938180
Fluoranthene	0.0126		0.00328	0.00867	1	10/08/2022 16:29	WG1938180
Fluorene	U		0.00296	0.00867	1	10/08/2022 16:29	WG1938180
Indeno(1,2,3-cd)pyrene	0.00371	J	0.00261	0.00867	1	10/08/2022 16:29	WG1938180
Naphthalene	0.0108	J	0.00589	0.0289	1	10/08/2022 16:29	WG1938180
Phenanthrene	0.0127		0.00334	0.00867	1	10/08/2022 16:29	WG1938180
Pyrene	0.00628	J	0.00289	0.00867	1	10/08/2022 16:29	WG1938180
1-Methylnaphthalene	U		0.00648	0.0289	1	10/08/2022 16:29	WG1938180
2-Methylnaphthalene	U		0.00617	0.0289	1	10/08/2022 16:29	WG1938180
2-Chloronaphthalene	U		0.00673	0.0289	1	10/08/2022 16:29	WG1938180
(S) p-Terphenyl-d14	*67.1*			*23.0-120*		*10/08/2022 16:29*	WG1938180
(S) Nitrobenzene-d5	*77.9*			*14.0-149*		*10/08/2022 16:29*	WG1938180
(S) 2-Fluorobiphenyl	*68.4*			*34.0-125*		*10/08/2022 16:29*	WG1938180

Method Blank (MB)

(MB) R3844740-1 10/04/22 08:32

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

L1541694-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1541694-14 10/04/22 08:32 • (DUP) R3844740-3 10/04/22 08:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.8	86.3	1	0.557		10

Laboratory Control Sample (LCS)

(LCS) R3844740-2 10/04/22 08:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3844737-1 10/04/22 08:25

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

L1541696-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1541696-09 10/04/22 08:25 • (DUP) R3844737-3 10/04/22 08:25

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	60.3	56.5	1	6.58		10

Laboratory Control Sample (LCS)

(LCS) R3844737-2 10/04/22 08:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3845070-1 10/05/22 08:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1539133-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1539133-01 10/05/22 08:02 • (DUP) R3845070-3 10/05/22 08:02

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.5	86.3	1	1.41		10

Laboratory Control Sample (LCS)

(LCS) R3845070-2 10/05/22 08:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3845816-1 10/07/22 08:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3845816-2 10/07/22 08:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.517	103	80.0-120	

L1541696-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541696-02 10/07/22 08:42 • (MS) R3845816-3 10/07/22 08:44 • (MSD) R3845816-4 10/07/22 08:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.721	0.0623	0.786	1.28	100	168	1	75.0-125		J3 J5	47.6	20

Method Blank (MB)

(MB) R3848462-1 10/14/22 10:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Method Blank (MB)

(MB) R3848561-1 10/14/22 12:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.152	2.50

Laboratory Control Sample (LCS)

(LCS) R3848462-2 10/14/22 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	86.9	86.9	80.0-120	
Cadmium	100	94.0	94.0	80.0-120	
Chromium	100	93.0	93.0	80.0-120	
Copper	100	86.8	86.8	80.0-120	
Lead	100	88.6	88.6	80.0-120	
Nickel	100	93.2	93.2	80.0-120	
Selenium	100	97.7	97.7	80.0-120	
Silver	20.0	17.5	87.6	80.0-120	
Zinc	100	87.1	87.1	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R3848561-2 10/14/22 12:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	87.2	87.2	80.0-120	

L1541684-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541684-04 10/14/22 10:09 • (MS) R3848462-5 10/14/22 10:18 • (MSD) R3848462-6 10/14/22 10:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	6.88	83.4	79.1	76.6	72.2	5	75.0-125		J6	5.34	20
Cadmium	100	0.305	87.8	84.1	87.5	83.7	5	75.0-125			4.38	20
Chromium	100	16.6	98.0	94.7	81.3	78.1	5	75.0-125			3.38	20
Copper	100	14.6	91.2	85.3	76.6	70.7	5	75.0-125		J6	6.72	20
Lead	100	10.3	92.5	84.3	82.2	74.0	5	75.0-125		J6	9.25	20
Nickel	100	13.2	92.1	88.2	78.9	75.0	5	75.0-125			4.30	20
Selenium	100	0.392	93.1	90.3	92.7	89.9	5	75.0-125			2.99	20
Silver	20.0	U	16.3	15.6	81.6	78.0	5	75.0-125			4.43	20
Zinc	100	44.6	117	110	72.7	65.5	5	75.0-125	J6	J6	6.28	20

L1541684-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541684-04 10/14/22 12:48 • (MS) R3848561-5 10/14/22 12:58 • (MSD) R3848561-6 10/14/22 13:01

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	103	1620	679	1510	577	5	75.0-125	E J5	J3 J5	81.6	20

Method Blank (MB)

(MB) R3846990-2 10/04/22 23:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3846990-1 10/04/22 21:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C6 - C12	5.50	5.14	93.5	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1541687-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541687-15 10/05/22 01:07 • (MS) R3846990-3 10/05/22 07:31 • (MSD) R3846990-4 10/05/22 07:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	147	1.05	134	130	90.5	87.3	25	50.0-150			3.57	27
(S) a,a,a-Trifluorotoluene(FID)					*105*	*102*		*77.0-120*				

Method Blank (MB)

(MB) R3846127-2 10/06/22 07:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3846127-1 10/06/22 06:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5350	97.3	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*78.0-120*	

L1541502-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541502-05 10/06/22 09:42 • (MS) R3846127-3 10/06/22 15:43 • (MSD) R3846127-4 10/06/22 16:06

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	5290	5420	96.2	98.5	1	10.0-155			2.43	21
(S) a,a,a-Trifluorotoluene(FID)					*102*	*106*		*78.0-120*				

Method Blank (MB)

(MB) R3846497-2 10/07/22 22:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		0.548	1.00
Acrylonitrile	U		0.0760	0.500
Benzene	U		0.0160	0.0400
Bromobenzene	U		0.0420	0.500
Bromochloromethane	U		0.0452	0.200
Bromodichloromethane	U		0.0315	0.100
Bromoform	U		0.239	1.00
Bromomethane	U		0.148	0.500
n-Butylbenzene	U		0.153	0.500
sec-Butylbenzene	U		0.101	0.500
tert-Butylbenzene	U		0.0620	0.200
Carbon disulfide	U		0.162	0.500
Carbon tetrachloride	U		0.0432	0.200
Chlorobenzene	U		0.0229	0.100
Chlorodibromomethane	U		0.0180	0.100
Chloroethane	U		0.0432	0.200
Chloroform	U		0.0166	0.100
Chloromethane	U		0.0556	0.500
2-Chlorotoluene	U		0.0368	0.100
4-Chlorotoluene	U		0.0452	0.200
1,2-Dibromo-3-Chloropropane	U		0.204	1.00
1,2-Dibromoethane	U		0.0210	0.100
Dibromomethane	U		0.0400	0.200
1,2-Dichlorobenzene	U		0.0580	0.200
1,3-Dichlorobenzene	U		0.0680	0.200
1,4-Dichlorobenzene	U		0.0788	0.200
trans-1,4-Dichloro-2-butene	U		0.0560	0.200
Dichlorodifluoromethane	U		0.0327	0.100
1,1-Dichloroethane	U		0.0230	0.100
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
1,2-Dichloropropane	U		0.0508	0.200
1,1-Dichloropropene	U		0.0280	0.100
1,3-Dichloropropane	U		0.0700	0.200
cis-1,3-Dichloropropene	U		0.0271	0.100
trans-1,3-Dichloropropene	U		0.0612	0.200
2,2-Dichloropropane	U		0.0317	0.100
Di-isopropyl ether	U		0.0140	0.0400

Method Blank (MB)

(MB) R3846497-2 10/07/22 22:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.0212	0.100
Hexachloro-1,3-butadiene	U		0.508	1.00
2-Hexanone	U		0.400	1.00
n-Hexane	U		0.0424	0.200
Iodomethane	U		0.242	0.500
Isopropylbenzene	U		0.0345	0.100
p-Isopropyltoluene	U		0.0932	0.200
2-Butanone (MEK)	U		0.500	1.00
Methylene Chloride	0.426	J	0.265	1.00
4-Methyl-2-pentanone (MIBK)	U		0.400	1.00
Methyl tert-butyl ether	U		0.0118	0.0400
Naphthalene	U		0.124	0.500
n-Propylbenzene	U		0.0472	0.200
Styrene	U		0.109	0.500
1,1,1,2-Tetrachloroethane	U		0.0200	0.100
1,1,2,2-Tetrachloroethane	U		0.0156	0.100
1,1,2-Trichlorotrifluoroethane	U		0.0270	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
1,2,3-Trichlorobenzene	U		0.0250	0.500
1,2,4-Trichlorobenzene	U		0.193	0.500
1,1,1-Trichloroethane	U		0.0110	0.100
1,1,2-Trichloroethane	U		0.0353	0.100
Trichloroethene	U		0.0160	0.0400
Trichlorofluoromethane	U		0.0200	0.100
1,2,3-Trichloropropane	U		0.204	0.500
1,2,4-Trimethylbenzene	U		0.0464	0.200
1,2,3-Trimethylbenzene	U		0.0460	0.200
1,3,5-Trimethylbenzene	U		0.0432	0.200
Vinyl acetate	U		0.141	0.500
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	*96.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*

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

Laboratory Control Sample (LCS)

(LCS) R3846497-1 10/07/22 19:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	28.0	112	10.0-160	
Acrylonitrile	25.0	24.7	98.8	45.0-153	
Benzene	5.00	4.84	96.8	70.0-123	
Bromobenzene	5.00	4.44	88.8	73.0-121	
Bromochloromethane	5.00	4.73	94.6	77.0-128	
Bromodichloromethane	5.00	4.44	88.8	73.0-121	
Bromoform	5.00	4.83	96.6	64.0-132	
Bromomethane	5.00	4.03	80.6	56.0-147	
n-Butylbenzene	5.00	4.57	91.4	68.0-135	
sec-Butylbenzene	5.00	4.46	89.2	74.0-130	
tert-Butylbenzene	5.00	4.40	88.0	75.0-127	
Carbon disulfide	5.00	4.32	86.4	56.0-133	
Carbon tetrachloride	5.00	4.12	82.4	66.0-128	
Chlorobenzene	5.00	4.53	90.6	76.0-128	
Chlorodibromomethane	5.00	4.67	93.4	74.0-127	
Chloroethane	5.00	4.67	93.4	61.0-134	
Chloroform	5.00	4.16	83.2	72.0-123	
Chloromethane	5.00	3.32	66.4	51.0-138	
2-Chlorotoluene	5.00	4.46	89.2	75.0-124	
4-Chlorotoluene	5.00	4.25	85.0	75.0-124	
1,2-Dibromo-3-Chloropropane	5.00	3.95	79.0	59.0-130	
1,2-Dibromoethane	5.00	4.41	88.2	74.0-128	
Dibromomethane	5.00	4.46	89.2	75.0-122	
1,2-Dichlorobenzene	5.00	4.33	86.6	76.0-124	
1,3-Dichlorobenzene	5.00	4.56	91.2	76.0-125	
1,4-Dichlorobenzene	5.00	4.23	84.6	77.0-121	
trans-1,4-Dichloro-2-butene	5.00	4.64	92.8	45.0-143	
Dichlorodifluoromethane	5.00	4.28	85.6	43.0-156	
1,1-Dichloroethane	5.00	4.62	92.4	70.0-127	
1,2-Dichloroethane	5.00	4.15	83.0	65.0-131	
1,1-Dichloroethene	5.00	4.42	88.4	65.0-131	
cis-1,2-Dichloroethene	5.00	4.61	92.2	73.0-125	
trans-1,2-Dichloroethene	5.00	4.57	91.4	71.0-125	
1,2-Dichloropropane	5.00	4.91	98.2	74.0-125	
1,1-Dichloropropene	5.00	4.61	92.2	73.0-125	
1,3-Dichloropropane	5.00	4.56	91.2	80.0-125	
cis-1,3-Dichloropropene	5.00	4.36	87.2	76.0-127	
trans-1,3-Dichloropropene	5.00	4.41	88.2	73.0-127	
2,2-Dichloropropane	5.00	4.35	87.0	59.0-135	
Di-isopropyl ether	5.00	4.14	82.8	60.0-136	

Laboratory Control Sample (LCS)

(LCS) R3846497-1 10/07/22 19:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	5.00	4.35	87.0	74.0-126	
Hexachloro-1,3-butadiene	5.00	4.30	86.0	57.0-150	
2-Hexanone	25.0	22.5	90.0	54.0-147	
n-Hexane	5.00	4.08	81.6	55.0-137	
Iodomethane	25.0	19.1	76.4	74.0-134	
Isopropylbenzene	5.00	4.44	88.8	72.0-127	
p-Isopropyltoluene	5.00	4.35	87.0	72.0-133	
2-Butanone (MEK)	25.0	21.0	84.0	30.0-160	
Methylene Chloride	5.00	4.66	93.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	25.0	22.5	90.0	56.0-143	
Methyl tert-butyl ether	5.00	4.26	85.2	66.0-132	
Naphthalene	5.00	4.73	94.6	59.0-130	
n-Propylbenzene	5.00	4.46	89.2	74.0-126	
Styrene	5.00	4.21	84.2	72.0-127	
1,1,1,2-Tetrachloroethane	5.00	4.20	84.0	74.0-129	
1,1,2,2-Tetrachloroethane	5.00	4.38	87.6	68.0-128	
1,1,2-Trichlorotrifluoroethane	5.00	4.71	94.2	61.0-139	
Tetrachloroethene	5.00	4.25	85.0	70.0-136	
Toluene	5.00	4.39	87.8	75.0-121	
1,2,3-Trichlorobenzene	5.00	4.50	90.0	59.0-139	
1,2,4-Trichlorobenzene	5.00	4.39	87.8	62.0-137	
1,1,1-Trichloroethane	5.00	3.96	79.2	69.0-126	
1,1,2-Trichloroethane	5.00	5.01	100	78.0-123	
Trichloroethene	5.00	4.38	87.6	76.0-126	
Trichlorofluoromethane	5.00	4.30	86.0	61.0-142	
1,2,3-Trichloropropane	5.00	3.95	79.0	67.0-129	
1,2,4-Trimethylbenzene	5.00	4.37	87.4	70.0-126	
1,2,3-Trimethylbenzene	5.00	4.03	80.6	74.0-124	
1,3,5-Trimethylbenzene	5.00	4.45	89.0	73.0-127	
Vinyl acetate	25.0	21.5	86.0	43.0-159	
Vinyl chloride	5.00	5.14	103	63.0-134	
Xylenes, Total	15.0	13.5	90.0	72.0-127	
(S) Toluene-d8			*100*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*92.1*	*70.0-130*	

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

Method Blank (MB)

(MB) R3846783-3 10/09/22 13:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R3846783-3 10/09/22 13:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	0.00178	J	0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*90.5*			*70.0-130*

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

(LCS) R3846783-1 10/09/22 12:42 • (LCSD) R3846783-2 10/09/22 13:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.775	0.705	124	113	10.0-160			9.46	31
Acrylonitrile	0.625	0.616	0.641	98.6	103	45.0-153			3.98	22
Benzene	0.125	0.140	0.139	112	111	70.0-123			0.717	20
Bromobenzene	0.125	0.132	0.130	106	104	73.0-121			1.53	20
Bromodichloromethane	0.125	0.131	0.134	105	107	73.0-121			2.26	20

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

(LCS) R3846783-1 10/09/22 12:42 • (LCSD) R3846783-2 10/09/22 13:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.160	0.149	128	119	64.0-132			7.12	20
Bromomethane	0.125	0.0943	0.113	75.4	90.4	56.0-147			18.0	20
n-Butylbenzene	0.125	0.136	0.136	109	109	68.0-135			0.000	20
sec-Butylbenzene	0.125	0.127	0.133	102	106	74.0-130			4.62	20
tert-Butylbenzene	0.125	0.128	0.139	102	111	75.0-127			8.24	20
Carbon tetrachloride	0.125	0.116	0.130	92.8	104	66.0-128			11.4	20
Chlorobenzene	0.125	0.130	0.126	104	101	76.0-128			3.12	20
Chlorodibromomethane	0.125	0.146	0.137	117	110	74.0-127			6.36	20
Chloroethane	0.125	0.111	0.133	88.8	106	61.0-134			18.0	20
Chloroform	0.125	0.122	0.124	97.6	99.2	72.0-123			1.63	20
Chloromethane	0.125	0.0629	0.0978	50.3	78.2	51.0-138	J4	J3	43.4	20
2-Chlorotoluene	0.125	0.138	0.135	110	108	75.0-124			2.20	20
4-Chlorotoluene	0.125	0.129	0.133	103	106	75.0-124			3.05	20
1,2-Dibromo-3-Chloropropane	0.125	0.133	0.127	106	102	59.0-130			4.62	20
1,2-Dibromoethane	0.125	0.134	0.136	107	109	74.0-128			1.48	20
Dibromomethane	0.125	0.150	0.144	120	115	75.0-122			4.08	20
1,2-Dichlorobenzene	0.125	0.129	0.122	103	97.6	76.0-124			5.58	20
1,3-Dichlorobenzene	0.125	0.130	0.132	104	106	76.0-125			1.53	20
1,4-Dichlorobenzene	0.125	0.123	0.126	98.4	101	77.0-121			2.41	20
Dichlorodifluoromethane	0.125	0.0520	0.112	41.6	89.6	43.0-156	J4	J3	73.2	20
1,1-Dichloroethane	0.125	0.129	0.140	103	112	70.0-127			8.18	20
1,2-Dichloroethane	0.125	0.126	0.122	101	97.6	65.0-131			3.23	20
1,1-Dichloroethene	0.125	0.121	0.136	96.8	109	65.0-131			11.7	20
cis-1,2-Dichloroethene	0.125	0.133	0.133	106	106	73.0-125			0.000	20
trans-1,2-Dichloroethene	0.125	0.119	0.128	95.2	102	71.0-125			7.29	20
1,2-Dichloropropane	0.125	0.136	0.134	109	107	74.0-125			1.48	20
1,1-Dichloropropene	0.125	0.121	0.135	96.8	108	73.0-125			10.9	20
1,3-Dichloropropane	0.125	0.141	0.135	113	108	80.0-125			4.35	20
cis-1,3-Dichloropropene	0.125	0.143	0.130	114	104	76.0-127			9.52	20
trans-1,3-Dichloropropene	0.125	0.138	0.135	110	108	73.0-127			2.20	20
2,2-Dichloropropane	0.125	0.140	0.135	112	108	59.0-135			3.64	20
Di-isopropyl ether	0.125	0.120	0.117	96.0	93.6	60.0-136			2.53	20
Ethylbenzene	0.125	0.128	0.134	102	107	74.0-126			4.58	20
Hexachloro-1,3-butadiene	0.125	0.132	0.151	106	121	57.0-150			13.4	20
Isopropylbenzene	0.125	0.124	0.128	99.2	102	72.0-127			3.17	20
p-Isopropyltoluene	0.125	0.126	0.134	101	107	72.0-133			6.15	20
2-Butanone (MEK)	0.625	0.675	0.603	108	96.5	30.0-160			11.3	24
Methylene Chloride	0.125	0.138	0.138	110	110	68.0-123			0.000	20
4-Methyl-2-pentanone (MIBK)	0.625	0.681	0.624	109	99.8	56.0-143			8.74	20
Methyl tert-butyl ether	0.125	0.121	0.122	96.8	97.6	66.0-132			0.823	20

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

(LCS) R3846783-1 10/09/22 12:42 • (LCSD) R3846783-2 10/09/22 13:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.157	0.140	126	112	59.0-130			11.4	20
n-Propylbenzene	0.125	0.130	0.134	104	107	74.0-126			3.03	20
Styrene	0.125	0.125	0.121	100	96.8	72.0-127			3.25	20
1,1,1,2-Tetrachloroethane	0.125	0.123	0.119	98.4	95.2	74.0-129			3.31	20
1,1,2,2-Tetrachloroethane	0.125	0.139	0.123	111	98.4	68.0-128			12.2	20
1,1,2-Trichlorotrifluoroethane	0.125	0.129	0.153	103	122	61.0-139			17.0	20
Tetrachloroethene	0.125	0.119	0.126	95.2	101	70.0-136			5.71	20
Toluene	0.125	0.125	0.123	100	98.4	75.0-121			1.61	20
1,2,3-Trichlorobenzene	0.125	0.146	0.123	117	98.4	59.0-139			17.1	20
1,2,4-Trichlorobenzene	0.125	0.135	0.134	108	107	62.0-137			0.743	20
1,1,1-Trichloroethane	0.125	0.110	0.126	88.0	101	69.0-126			13.6	20
1,1,2-Trichloroethane	0.125	0.145	0.144	116	115	78.0-123			0.692	20
Trichloroethene	0.125	0.121	0.137	96.8	110	76.0-126			12.4	20
Trichlorofluoromethane	0.125	0.101	0.136	80.8	109	61.0-142		J3	29.5	20
1,2,3-Trichloropropane	0.125	0.133	0.118	106	94.4	67.0-129			12.0	20
1,2,4-Trimethylbenzene	0.125	0.126	0.130	101	104	70.0-126			3.12	20
1,2,3-Trimethylbenzene	0.125	0.127	0.120	102	96.0	74.0-124			5.67	20
1,3,5-Trimethylbenzene	0.125	0.128	0.134	102	107	73.0-127			4.58	20
Vinyl chloride	0.125	0.100	0.149	80.0	119	63.0-134		J3	39.4	20
Xylenes, Total	0.375	0.399	0.388	106	103	72.0-127			2.80	20
(S) Toluene-d8				*99.5*	*100*	*75.0-131*				
(S) 4-Bromofluorobenzene				*100*	*98.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*97.2*	*96.6*	*70.0-130*				

Method Blank (MB)

(MB) R3848813-1 10/09/22 08:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	*105*			*52.0-156*

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

(LCS) R3848813-2 10/09/22 09:20 • (LCSD) R3848813-3 10/09/22 09:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	323	244	21.5	16.3	50.0-150	J4	J3 J4	27.9	20
(S) o-Terphenyl				*37.3*	*31.4*	*52.0-156*	J2	J2		

Method Blank (MB)

(MB) R3846234-1 10/08/22 10:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*71.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3846234-2 10/08/22 10:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	40.2	80.4	50.0-150	
(S) o-Terphenyl			*67.6*	*18.0-148*	

L1541687-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541687-11 10/08/22 13:46 • (MS) R3846241-1 10/08/22 13:59 • (MSD) R3846241-2 10/08/22 14:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	54.3	U	112	107	206	198	50	50.0-150	J5	J5	3.96	20
(S) o-Terphenyl					*0.000*	*0.000*		*18.0-148*	J7	J7		

Method Blank (MB)

(MB) R3847455-1 10/11/22 18:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*73.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3847455-2 10/11/22 18:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	41.1	82.2	50.0-150	
(S) o-Terphenyl			*90.8*	*18.0-148*	

L1541696-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541696-17 10/11/22 18:42 • (MS) R3847455-3 10/11/22 18:57 • (MSD) R3847455-4 10/11/22 19:11

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	82.4	U	64.0	60.9	77.7	74.3	1	50.0-150			5.03	20
(S) o-Terphenyl					*87.7*	*80.0*		*18.0-148*				

Method Blank (MB)

(MB) R3845834-1 10/06/22 15:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*91.7*			*10.0-135*
(S) Tetrachloro-m-xylene	*103*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3845834-2 10/06/22 15:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.169	101	36.0-141	
PCB 1260	0.167	0.137	82.0	37.0-145	
(S) Decachlorobiphenyl			*82.6*	*10.0-135*	
(S) Tetrachloro-m-xylene			*96.5*	*10.0-139*	

L1541350-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541350-04 10/06/22 16:31 • (MS) R3845834-3 10/06/22 16:40 • (MSD) R3845834-4 10/06/22 16:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.201	U	0.146	0.177	72.5	88.0	1	10.0-160			19.4	37
PCB 1260	0.201	U	0.103	0.113	51.1	56.0	1	10.0-160		P	9.06	38
(S) Decachlorobiphenyl					*79.4*	*53.6*		*10.0-135*				
(S) Tetrachloro-m-xylene					*92.5*	*89.0*		*10.0-139*				

Method Blank (MB)

(MB) R3846501-2 10/08/22 08:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL 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	*81.5*			*23.0-120*
(S) Nitrobenzene-d5	*78.1*			*14.0-149*
(S) 2-Fluorobiphenyl	*79.6*			*34.0-125*

Laboratory Control Sample (LCS)

(LCS) R3846501-1 10/08/22 07:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0628	78.5	50.0-126	
Acenaphthene	0.0800	0.0650	81.3	50.0-120	
Acenaphthylene	0.0800	0.0627	78.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0640	80.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0597	74.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0673	84.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0661	82.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0638	79.8	49.0-125	
Chrysene	0.0800	0.0673	84.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0637	79.6	47.0-125	
Fluoranthene	0.0800	0.0649	81.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3846501-1 10/08/22 07:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0650	81.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0641	80.1	46.0-125	
Naphthalene	0.0800	0.0637	79.6	50.0-120	
Phenanthrene	0.0800	0.0629	78.6	47.0-120	
Pyrene	0.0800	0.0705	88.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0628	78.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0641	80.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0634	79.3	50.0-120	
(S) p-Terphenyl-d14			*85.4*	*23.0-120*	
(S) Nitrobenzene-d5			*84.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*84.5*	*34.0-125*	

L1541509-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541509-17 10/08/22 08:42 • (MS) R3846501-3 10/08/22 08:59 • (MSD) R3846501-4 10/08/22 09:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0967	U	0.0552	0.0520	57.1	57.2	1	10.0-145			6.09	30
Acenaphthene	0.0967	U	0.0575	0.0557	59.5	61.3	1	14.0-127			3.20	27
Acenaphthylene	0.0967	U	0.0576	0.0553	59.6	60.9	1	21.0-124			4.06	25
Benzo(a)anthracene	0.0967	U	0.0552	0.0517	57.1	56.9	1	10.0-139			6.55	30
Benzo(a)pyrene	0.0967	U	0.0602	0.0570	62.3	62.8	1	10.0-141			5.36	31
Benzo(b)fluoranthene	0.0967	U	0.0557	0.0517	57.6	56.9	1	10.0-140			7.42	36
Benzo(g,h,i)perylene	0.0967	U	0.0535	0.0499	55.4	54.9	1	10.0-140			7.01	33
Benzo(k)fluoranthene	0.0967	U	0.0579	0.0559	59.9	61.6	1	10.0-137			3.40	31
Chrysene	0.0967	U	0.0627	0.0602	64.9	66.2	1	10.0-145			4.13	30
Dibenz(a,h)anthracene	0.0967	U	0.0557	0.0536	57.6	59.0	1	10.0-132			3.76	31
Fluoranthene	0.0967	U	0.0526	0.0482	54.4	53.1	1	10.0-153			8.63	33
Fluorene	0.0967	U	0.0564	0.0536	58.4	59.0	1	11.0-130			5.05	29
Indeno(1,2,3-cd)pyrene	0.0967	U	0.0545	0.0512	56.4	56.4	1	10.0-137			6.17	32
Naphthalene	0.0967	0.00939	0.0675	0.0598	60.2	55.5	1	10.0-135			12.1	27
Phenanthrene	0.0967	U	0.0539	0.0506	55.8	55.7	1	10.0-144			6.24	31
Pyrene	0.0967	U	0.0579	0.0534	59.9	58.8	1	10.0-148			8.03	35
1-Methylnaphthalene	0.0967	U	0.0596	0.0553	61.6	60.9	1	10.0-142			7.36	28
2-Methylnaphthalene	0.0967	0.00563	0.0669	0.0567	63.4	56.2	1	10.0-137			16.6	28
2-Chloronaphthalene	0.0967	U	0.0588	0.0562	60.9	61.8	1	29.0-120			4.62	24
(S) p-Terphenyl-d14					*61.6*	*65.3*		*23.0-120*				
(S) Nitrobenzene-d5					*74.1*	*83.8*		*14.0-149*				
(S) 2-Fluorobiphenyl					*64.0*	*65.6*		*34.0-125*				

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.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C4	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Data is likely to show a low bias concerning the result.
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.
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.

GLOSSARY OF TERMS

Qualifier	Description
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.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Company Name/Address:
Apex Companies, LLC
801 NW 42nd St, Ste 204
Seattle Washington, 98101

Billing Information:
Apex Companies

Pres Chk

Report to:
Anders Utter

Email To:
anders.utters@apexcos.com

Project Description:
Dagmar Marina,1871 Ross ave.

City/State Collected: **Everett, WA**

Please Circle: PT MT CT ET

Phone: **425-757-1452**

Client Project #
ALT021-0313032-22008149

Lab Project #

Collected by (print):
Hannah Hiscox

Site/Facility ID #
Dagmar Marina

P.O. #
ALT021-0313032-22008149

Collected by (signature):

Immediately Packed on Ice N ____ Y X

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody consitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

updated COC received from Anders Utter-bjf 10/03/22

SDG #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-G TPH-DX	TPH-D TPH-DX	TPH-O TPH-DX	VOC RPA 8260	RCRA 8 Metals + Cu, Ni, Zn						Remarks	Sample # (lab only)
SB-01 (4.5-4)	Grab	SS	4.5-5	9/28/22	1002	2	X	X	X	X							Hold	
SB-01 (9.5-10)	Grab	SS	9.5-10	9/28/22	1134	2	X	X	X		X							
Sb-01 (15.4-15)	Grab	SS	14.5-15	9/28/22	1145	2	X	X	X	X	X						*	
SB-02 (4.5-5)	Grab	SS	4.5-5	9/28/22	1030	2	X	X	X	X							*	
SB-02 (9.5-10)	Grab	SS	9.5-10	9/28/22	1155	2	X	X	X	X							Hold	
SB-02 (14.5-15)	Grab	SS	14.5-15	9/28/22	1200	2	X	X	X	X							*	
SB-03 (4.5-5)	Grab	SS	4.5-5	9/28/22	1115	2	X	X	X	X							*	
SB-03 (9.5-10)	Grab	SS	9.5-10	9/28/22	1220	2	X	X	X	X							Hold	
SB-03 (13-13.5)	Grab	SS	13-13.5	9/28/22	1240	2	X	X	X	X							*	
VOC SB-04 (4.5-5)	Grab	SS	4.5-5	9/28/22	1212	2	X	X	X	X								

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

Remarks: * = remove VOC from analysis
Hold = hold sample, do not analyze

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	9/29/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

Company Name/Address:	Billing Information:	Pres Chk
Apex Companies, LLC **801 NW 42nd St, Ste 204** **Seattle Washington, 98101**	**Apex Companies**	

Report to:	Email To:
Anders Utter	**anders.utters@apexcos.com**

Project Description:	City/State Collected:	Please Circle:
Dagmar Marina,1871 Ross ave.	**Everett, WA**	PT MT CT ET

Phone:	Client Project #	Lab Project #
425-757-1452	**ALT021-0313032-22008149**	

Collected by (print):	Site/Facility ID #	P.O. #
Hannah Hiscox	**Dagmar Marina**	**ALT021-0313032-22008149**

Collected by (signature):

Immediately Packed on Ice N____ Y____

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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 #
Table #
Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-DX TPH-G	TPH-DX TPH-D	TPH-DX TPH-O	VOC RPA 8260	RCRA 8 Metals + Cu, Ni, Zn						Remarks	Sample # (lab only)
SB-04 (9.5-10)	Grab	SS	9.5-10	9/28/22	1252	3	X	X	X	X	X							
SB-04 (13-14)	Grab	SS	13-14	9/28/22	1300	3	X	X	X	X								
SB-05 (4.5-5)	Grab	SS	4.5-5	9/28/22	1330	2	X	X	X									
SB-05 (9-10)	Grab	SS	9-10	9/28/22	1405	2	X	X	X									
SB-05 (14-15)	Grab	SS	14-15	9/28/22	1422	2	X	X	X								Hold	
SB-06 (4.5-5)	Grab	SS	4.5-5	9/28/22	1412	2	X	X	X									
SB-06 (9-10)	Grab	SS	9-10	9/28/22	1430	3	X	X	X									
SB-06 (14-15)	Grab	SS	14-15	9/28/22	1445	3	X	X	X								Hold	
GW4	Grab	GW	--	9/28/22	1512	10	X	X	X	X								
				9/28/22														

VOC
VOC

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

Remarks: * = remove VOC from analysis
Hold = hold sample do not analyze

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	9/29/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

Company Name/Address:
Apex Companies, LLC
801 NW 42nd St, Ste 204
Seattle Washington, 98101

Billing Information:
Apex Companies

Pres Chk

Report to:
Anders Utter

Email To:
anders.utters@apexcos.com

Project Description:
Dagmar Marina,1871 Ross ave.

City/State Collected: **Everett, WA**

Please Circle: PT MT CT ET

Phone: **425-757-1452**

Client Project #
ALT021-0313032-22008149

Lab Project #

Collected by (print):
Hannah Hiscox

Site/Facility ID #
Dagmar Marina

P.O. #
ALT021-0313032-22008149

Collected by (signature):

Immediately Packed on Ice N____ Y____

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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 #

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-DX	PAH	PCB	Metals	Remarks	Sample # (lab only)
Outfall-6	Grab	OT	0.6-0.10	9/27/22	1216	2	X	X	X	X		
Outfall-7	Grab	OT	0.6-0.10	9/27/22	1133	2	X	X	X	X		
Outfall-8	Grab	OT	0.6-.10	9/27/22	1154	2	X	X	X	X		
	Grab	SS										
	Grab	SS		9/28/22								
	Grab			9/28/22								
				9/28/22								
				9/28/22								
				9/28/22								
				9/28/22								

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	9/27/22	0900		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Apex Companies, LLC
801 NW 42nd St, Ste 204
Seattle Washington, 98101

Billing Information:
Apex Companies

Pres Chk

Report to:
Anders Utter

Email To:
anders.utters@apexcos.com

Project Description:
Dagmar Marina,1871 Ross ave.

City/State Collected: **Everett, WA**

Please Circle: PT MT CT ET

Phone: **425-757-1452**

Client Project #
ALT021-0313032-22008149

Lab Project #

Collected by (print):
Hannah Hiscox

Site/Facility ID #
Dagmar Marina

P.O. #
ALT021-0313032-22008149

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

Pace
PEOPLE ADVANCING SCIENCE
12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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 # L1541696
Table #
Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-G	TPH-D	TPH-O	VOC RPA 8260	Remarks	Sample # (lab only)
SB-01 (4.5-4)	Grab	SS	4.5-5	9/28/22	1002	2	X	X	X	X	*	-01
SB-01 (9.5-10)	Grab	SS	9.5-10	9/28/22	1134	2	X	X	X	X	Hold	-02
Sb-01 (15.4-15)	Grab	SS	14.5-15	9/28/22	1145	2	X	X	X	X	*	-03
SB-02 (4.5-5)	Grab	SS	4.5-5	9/28/22	1030	2	X	X	X	X	*	-04
SB-02 (9.5-10)	Grab	SS	9.5-10	9/28/22	1155	2	X	X	X	X	Hold	-05
SB-02 (14.5-15)	Grab	SS	14.5-15	9/28/22	1200	2	X	X	X	X	*	-06
SB-03 (4.5-5)	Grab	SS	4.5-5	9/28/22	1115	2	X	X	X	X	*	-07
SB-03 (9.5-10)	Grab	SS	9.5-10	9/28/22	1220	2	X	X	X	X	Hold	-08
SB-03 (13-13.5)	Grab	SS	13-13.5	9/28/22	1240	2	X	X	X	X	*	-09
VOC SB-04 (4.5-5)	Grab	SS	4.5-5	9/28/22	1212	2	X	X	X	X		-10

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

Remarks: * = remove VOC from analysis
Hold = hold sample, do not analyze

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier __ ___

Tracking #

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
	9/29/22	0900		3	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 52	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/30/22 Time: 1000	Hold: Condition: NCF / OK

Chain of Custody Page 23 of

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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 #	L541696
Table #	
Acctnum:	
Template:	
Prelogin:	
PM:	
PB:	
Shipped Via:	

Company Name/Address:
Apex Companies, LLC
801 NW 42nd St, Ste 204
Seattle Washington, 98101

Billing Information:
Apex Companies

Pres Chk

Report to:
Anders Utter

Email To:
anders.utters@apexcos.com

Project Description:
Dagmar Marina,1871 Ross ave.

City/State Collected: **Everett, WA**

Please Circle: PT MT CT ET

Phone: **425-757-1452**

Client Project #
ALT021-0313032-22008149

Lab Project #

Collected by (print):
Hannah Hiscox

Site/Facility ID #
Dagmar Marina

P.O. #
ALT021-0313032-22008149

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-DX TPH-G	TPH-DX TPH-D	TPH-DX TPH-O	VOC RPA 8260	Remarks	Sample # (lab only)
SB-04 (9.5-10)	Grab	SS	9.5-10	9/28/22	1252	3	X	X	X	X		-11
SB-04 (13-14)	Grab	SS	13-14	9/28/22	1300	3	X	X	X	X		-12
SB-05 (4.5-5)	Grab	SS	4.5-5	9/28/22	1330	2	X	X	X			-13
SB-05 (9-10)	Grab	SS	9-10	9/28/22	1405	2	X	X	X		Hold	-14
SB-05 (14-15)	Grab	SS	14-15	9/28/22	1422	2	X	X	X			-15
SB-06 (4.5-5)	Grab	SS	4.5-5	9/28/22	1412	2	X	X	X			-16
SB-06 (9-10)	Grab	SS	9-10	9/28/22	1430	3	X	X	X		Hold	-17
SB-06 (14-15)	Grab	SS	14-15	9/28/22	1445	3	X	X	X			-18
GW4	Grab	GW	--	9/28/22	1512	10 3	X	X	X	X		-19
				9/28/22								

VOC
VOC

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

Remarks: * = remove VOC from analysis
Hold = hold sample do not analyze

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date: 9/29/22	Time: 0900	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 52
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/30/22 Time: 1000

If preservation required by Login: Date/Time

Hold:

Condition: (NCF) / OK

Chain of Custody Page 3 of 3

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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

Company Name/Address:
Apex Companies, LLC
801 NW 42nd St, Ste 204
Seattle Washington, 98101

Billing Information:
Apex Companies

Report to:
Anders Utter

Email To:
anders.utters@apexcos.com

Project Description:
Dagmar Marina,1871 Ross ave.

City/State Collected: **Everett, WA**

Please Circle: PT MT CT ET

Phone: **425-757-1452**

Client Project #
ALT021-0313032-22008149

Lab Project #

Collected by (print):
Hannah Hiscox

Site/Facility ID #
Dagmar Marina

P.O. #
ALT021-0313032-22008149

Collected by (signature):

Quote #

Immediately Packed on Ice N ____ Y ____

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

Date Results Needed

SDG # L541696

Table #

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH-DX	PAH	PCB	Metals	Remarks	Sample # (lab only)
Outfall-6	Grab	OT	0.6-0.10	9/27/22	1216	2	X	X	X	X		-20
Outfall-7	Grab	OT	0.6-0.10	9/27/22	1133	2	X	X	X	X		-21
Outfall-8	Grab	OT	0.6-.10	9/27/22	1154	2	X	X	X	X		-22
	Grab	SS										
	Grab	SS		9/28/22								
	Grab			9/28/22								
				9/28/22								
				9/28/22								
				9/28/22								
				9/28/22								

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	9/27/22	0900		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				52	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: / Condition: NCF / OK
				9/30/22 1000	

L15411696

Tracking Numbers	Temperature
5882 7553 7761	NSAG 4.1+0=4.1
2795 7306 3794	NSAG 5.6+0=5.6

10/1-NCF-L1541696 ASHCREPOR

R5

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

Members

HM Hailey Melson (responsible) Brian Ford

Due on *5 October 2022 8:00 AM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [x] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [x] PM initials:_____bjf_____
- [ ] Client Contact:_____

Comments

Hailey Melson *1 October 2022 10:06 AM*

1) 2 vials received broken for ID: GW4
2) 1-8oz broken for ID: SB-01 (15.4-15). 1-4oz and 1-40ml vial remain
3) What metals are needed for the last 3 IDs?

Brian Ford *3 October 2022 11:12 AM*

1) proceed with remaining containers
2) proceed with remaining containers
3)RCRA8 +Cu,Ni,Zn 6020

Troy Dunlap *3 October 2022 11:34 AM*

Done.

ANALYTICAL REPORT

October 12, 2022

Apex Companies, LLC - Portland, OR

Sample Delivery Group:	L1544410
Samples Received:	10/08/2022
Project Number:	
Description:	Dagmars Marina LSI Sampling

Report To:

Anders Utter
801 NW 42nd St
Ste 204
Seattle, WA 98107

Entire Report Reviewed By:

Brian Ford
Project Manager

TABLE OF CONTENTS

SAMPLE SUMMARY

MW-1-OF L1544410-01 GW

Collected by: Hannah Hiscox
Collected date/time: 10/06/22 13:24
Received date/time: 10/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1940277	1	10/11/22 14:58	10/11/22 20:28	LD	Mt. Juliet, TN

MW-1-F L1544410-02 GW

Collected by: Hannah Hiscox
Collected date/time: 10/06/22 13:30
Received date/time: 10/08/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG1940041	1	10/10/22 10:25	10/10/22 17:17	LD	Mt. Juliet, TN

CASE NARRATIVE

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

Brian Ford
Project Manager

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	14.7		0.180	2.00	1	10/11/2022 20:28	WG1940277

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	20.4		0.180	2.00	1	10/10/2022 17:17	WG1940041

Method Blank (MB)

(MB) R3846740-1 10/10/22 14:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Arsenic	U		0.180	2.00

Laboratory Control Sample (LCS)

(LCS) R3846740-2 10/10/22 14:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Arsenic	50.0	49.4	98.8	80.0-120	

L1536511-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536511-06 10/10/22 14:19 • (MS) R3846740-4 10/10/22 14:25 • (MSD) R3846740-5 10/10/22 14:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	16.8	67.8	65.8	102	98.0	1	75.0-125			3.07	20

L1536551-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536551-04 10/10/22 14:32 • (MS) R3846740-6 10/10/22 14:35 • (MSD) R3846740-7 10/10/22 14:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	0.863	51.2	50.2	101	98.6	1	75.0-125			2.01	20

Method Blank (MB)

(MB) R3847315-1 10/11/22 18:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Arsenic	U		0.180	2.00

Laboratory Control Sample (LCS)

(LCS) R3847315-2 10/11/22 18:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Arsenic	50.0	51.7	103	80.0-120	

L1540042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540042-01 10/11/22 18:45 • (MS) R3847315-4 10/11/22 18:51 • (MSD) R3847315-5 10/11/22 18:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	0.311	51.5	49.6	102	98.7	1	75.0-125			3.73	20

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.
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

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 [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Company Name/Address:
Apex Companies, LLC - Portland, OR

801 NW 42nd St
Ste 204
Seattle. WA 98107

Billing Information:
Accounts Payable
3015 SW First Ave.
Portland, OR 97201-4707

Pres Chk

Report to:
Anders Utter

Email To:
kelsi.evans@apexcos.com;Anders.Utter@apexc

Project Description:
Dagmars Marina LSI Sampling

City/State Collected: Everett WA

Please Circle: PT MT CT ET

Phone: **503-924-4704**

Client Project #

Lab Project #
ASHCREPOR-DAGMARINA

Collected by (print): Hannah Hixon

Site/Facility ID #

P.O. # 32220088289

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed ~~5 Bus Days~~ 48 HR

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX no silica 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8+Cu,Ni,Zn 6020 8ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH10ml/Syr	Arsenic				Remarks	Sample # (lab only)
MW-1-UF	G	~~GW~~ SS	~~0-4'~~	10-6-22	1324	1							X					4
MW-1-F	G	~~GW~~ SS	~~0-4'~~	↓	1330	1							X					5
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																

Chain of Custody Page ___ of ___

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 # L1544410

F231

Acctnum: **ASHCREPOR**
Template: **T216034**
Prelogin: **P949906**
PM: **110 - Brian Ford**
PB:

Shipped Via:

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

Remarks: 48 Hour turn Around

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	Sample Receipt Checklist
	10/6/22	1330		0	COC Seal Present/Intact: NP Y N COC Signed/Accurate: Y N Bottles arrive intact: Y N Correct bottles used: Y N Sufficient volume sent: Y N If Applicable VOA Zero Headspace: Y N Preservation Correct/Checked: Y N RAD Screen <0.5 mR/hr: Y N
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: ~~NSH~~ °C 3.0+0=3.0 Bottles Received: 2	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/8/22 Time: 900	Hold: Condition: NCF / (OK)