

CONSTRUCTION COMPLETION REPORT

Shelton C Street Landfill
Shelton, Washington

Prepared for: City of Shelton

Project No. 150074-C • October 25, 2023 FINAL



e a r t h + w a t e r

CONSTRUCTION COMPLETION REPORT

Shelton C Street Landfill
Shelton, Washington

Prepared for: City of Shelton

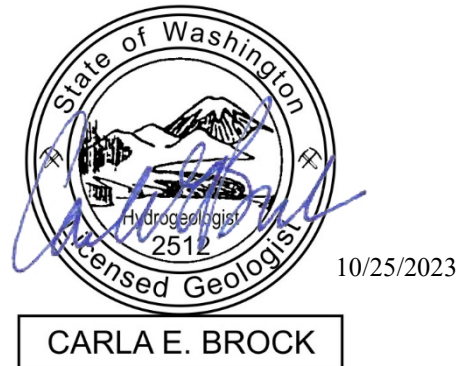
Project No. 150074-C • October 25, 2023 FINAL

Aspect Consulting, LLC



Eric Schellenger, PE
Senior Geotechnical Engineer
eschellenger@aspectconsulting.com

Ali Cochrane, LG
Associate Geologist
acochrane@aspectconsulting.com



Carla Brock, LHG
Principal Geologist
cbrock@aspectconsulting.com

Contents

| | |
|--|------------|
| Acronyms | iii |
| 1 Introduction | 1 |
| 1.1 Report Organization | 1 |
| 2 Background | 2 |
| 2.1 Site Use History | 2 |
| 2.2 Results of Remedial Investigation and Feasibility Study..... | 2 |
| 2.3 Cleanup Action Elements and Goals | 3 |
| 3 Cleanup Construction Activities | 4 |
| 3.1 Cleanup Construction Overview | 4 |
| 3.2 Landfill Waste Consolidation | 5 |
| 3.3 Low Permeability Soil Cap Construction | 6 |
| 3.3.1 Surface Preparation | 6 |
| 3.3.2 Foundation Layer..... | 7 |
| 3.3.3 Geotextile Isolation Barrier..... | 7 |
| 3.3.4 Imported Low Permeability Soil..... | 8 |
| 3.3.5 Vegetative Topsoil | 9 |
| 3.3.6 Deviations from the Plans | 9 |
| 3.3.7 Soil Cap Conformance with WAC Standards | 10 |
| 3.4 Physical Barriers..... | 10 |
| 3.5 Final Inspection | 11 |
| 4 Post-Construction Confirmational Monitoring | 11 |
| 4.1 Topographic Survey | 11 |
| 4.2 Groundwater Monitoring | 12 |
| 5 Conclusion..... | 12 |
| 6 References | 12 |
| 7 Limitations | 13 |

List of Tables

1 Soil Cap Construction Quantities.....6
2 Soil Cap Design Standards and As-Built Conditions 10

List of Figures

1 Site Location Map
2 Cleanup Action Overview

List of Appendices

A Photographs
B Record Drawings
C Geotextile Manufacturer Specifications
D Laboratory Reports for Chemical and Physical Quality of Imported Material
E Low Permeability Soil Laboratory Permeability and Proctor Tests
F Low Permeability Soil Density Test Reports
G Initial Settlement Survey Report

Acronyms

| | |
|--------------|---|
| Agreed Order | Agreed Order No. DE 19541 |
| Aspect | Aspect Consulting, LLC |
| CAP | Cleanup Action Plan |
| CCR | Construction Completion Report |
| City | City of Shelton |
| cPAHs | carcinogenic polycyclic aromatic hydrocarbons |
| COCs | contaminants of concern |
| CY | cubic yards |
| Ecology | Washington State Department of Ecology |
| EDR | Engineering Design Report |
| mg/kg | milligrams/kilogram |
| Miles | Miles Sand & Gravel Co. |
| MTCA | Model Toxics Control Act |
| RCW | Revised Code of Washington |
| RI/FS | Remedial Investigation/Feasibility Study |
| WAC | Washington Administrative Code |
| WDNR | Washington Department of Natural Resources |
| WSDOT | Washington State Department of Transportation |
| WWTP | wastewater treatment plant |

1 Introduction

Aspect Consulting, LLC (Aspect) prepared this Construction Completion Report (CCR) to document the cleanup construction activities performed at the Shelton C Street Landfill, a former municipal solid waste landfill, located in Shelton, Washington (herein referred to as the Site; Figure 1). The Site is located on a 16.7-acre parcel (Property; Figure 1) owned by the City of Shelton. The Property is at the west end of West C Street, just west of the overpass across U.S. Highway 101 in Mason, County, Washington. The City of Shelton (City) acquired the Property in 1928 and used a portion of it as a municipal solid waste landfill through the early 1980s for disposal of solid waste generated within the City limits and the surrounding areas.

The CCR has been prepared to meet the requirements of Agreed Order No. DE 19541 (Agreed Order) between the Washington State Department of Ecology (Ecology) and the City, executed on December 20, 2021. Ecology has determined that the cleanup action documented in this report complies with the Model Toxics Control Act (MTCA), Chapter 70.105D Revised Code of Washington (RCW), and the MTCA Cleanup Regulation, Chapter 173-340 of the Washington Administrative Code (WAC). This determination is based on the Remedial Investigation and Feasibility Study (RI/FS) Report (Aspect, 2021) and Cleanup Action Plan (CAP; Ecology, 2021), and other relevant documents in the administrative record.

The activities described in the CCR were conducted in accordance with the Engineering Design Report (EDR; Aspect, 2022a) and its addendums (Aspect, 2022b and 2023), which collectively provide the plans, specifications, and monitoring requirements for the engineering concepts of the cleanup action.

1.1 Report Organization

The following sections of this report are organized as follows:

- **Section 2—Background** describes the use history of the Property, the results of the RI/FS, and the cleanup action goals established in the CAP.
- **Section 3—Cleanup Construction Activities** describes the scope, methods, and implementation of the cleanup, including the low permeability cap construction, installation of physical barriers, and post-construction monitoring.
- **Section 4—Summary and Conclusions** briefly summarizes the cleanup construction results relative to the CAP goals.
- **Section 5—References** lists the documents cited in this report.

2 Background

2.1 Site Use History

The Property was purchased by the City in May 1928, including both the parcel and a perpetual easement for access; landfilling activities started the same year. In July 1931, the City sold the property to Rainier Pulp and Paper Company but retained the right to continue to use the land as a garbage dump. Rayonier, Incorporated, successor of Rainier Pulp and Paper Company, sold the property back to the City in July 1949.

The landfill received municipal solid waste between approximately 1928 and the mid-1980s. Early on, waste consolidation practices included open burning and on-Property incineration, common for the era (Aspect, 2021). Between 1931 and 1974, the landfill received by-products, research waste, and demolition debris from nearby pulp mills. Sludge from the City's wastewater treatment plant (WWTP) was brought to the landfill between 1973 and the mid-1980s. From 1976 to 1981, fly ash from the wood-burning power plant at the Simpson Timber Company mill was mixed with the WWTP sludge and put in the landfill. The WWTP sludge was disposed of in the northwestern part of the landfill and is estimated to be up to 5 feet thick. The cover soil and WWTP sludge overlie municipal solid waste that is approximately 20 to 25 feet thick.

The Property has been generally unused since the mid-1980s, and public access to the Property and surrounding properties is restricted for safety reasons. There is no available information that documents landfill closure activities, and it is not known whether any were completed, but the results of the RI indicate that some of the landfill waste was covered with imported soil.

In 2016, the City entered into Agreed Order No. DE 12929 with Ecology to perform an RI and FS and to submit a draft CAP for the Site. The RI field work was conducted between 2017 and 2020. The final RI/FS report and draft CAP were provided to Ecology in 2021, fulfilling the requirements of Agreed Order No. DE 12929.

In 2021, the City entered into Agreed Order No. DE 19541 with Ecology to implement the cleanup action described in the draft CAP following its finalization in February 2021. As of the date of this report, the completed requirements of the 2021 Agreed Order include preparation of the EDR with Compliance Monitoring Plan, construction plans, and specifications between 2021 and July 2022; conducting the cleanup construction between January and June 2023; and preparation of this Construction Completion Report.

2.2 Results of Remedial Investigation and Feasibility Study

Results of the RI (Aspect, 2021) indicate that the source of contaminants at the Site is the landfill waste, including the WWTP sludge. The contaminants of concern (COCs) for the cleanup action consist of carcinogenic polycyclic aromatic hydrocarbons (cPAHs), dioxin/furans, and metals in surface soil, and total and dissolved iron and manganese in groundwater. Dioxin/furans, cPAHs, and metals are at the highest concentrations in surface soil at the northwest portion of the landfill, where WWTP sludge was disposed of on the ground surface. Based on current and potential future use scenarios, the risk at the Site is to human receptors and terrestrial ecological receptors (plants and animals) who

have the potential for direct contact with landfill waste and COCs in surface and shallow subsurface soil.

To address contamination at the Site, four remedial alternatives were developed and evaluated in the FS (Aspect, 2021). The alternatives combined a range of potentially applicable technologies, consisting of landfill capping, source removal, institutional controls, and long-term monitoring. Each of the four alternatives were evaluated against the MTCA threshold criteria and other requirements, including disproportionate cost analysis procedures (WAC 173-340-360). The results of the analysis identified the following as the preferred alternative:

- **Alternative 1**, consisting of four components: install a low permeability soil cap meeting the landfill closure specifications in WAC 173-304-460(e); implement institutional controls in the form of deed restriction; install physical barriers in the form of fencing and restricted-access signage; and conduct long-term inspection, monitoring, and maintenance (I, M, and M), including annual topographic surveys for the first 5 years, periodic inspection of Site conditions, maintenance of the remedy as needed, semiannual groundwater monitoring for iron and manganese concentrations, and periodic reporting to Ecology including 5-year reviews.

2.3 Cleanup Action Elements and Goals

The cleanup activities were designed to improve protection of human health and the environment at the Site by implementing the CAP (Ecology, 2021). The elements of the cleanup action and their specific role in achieving the goal of protecting human health and the environment are as follows:

- **Low Permeability Soil Cap.** The soil cap, installed over the full extent of the landfill (approximately 4 acres), prevents contact with landfill waste and contaminated soil by human and terrestrial ecological receptors and meets the landfill closure specifications in WAC 173-304-460(e). The soil cap consists of a geotextile isolation barrier; a minimum 2-foot-thick layer of clean, imported low permeability cover materials; and a 6-inch-thick vegetative layer of topsoil seeded with grasses or other shallow-rooted vegetation. Installation of the soil cap is discussed in Section 3.3.
- **Institutional Controls.** Institutional controls will include an environmental covenant, in the form of a deed restriction, to prevent future, unrestricted development or any other activities that could create exposure pathways for direct contact with the contaminated soil or landfill waste. The institutional controls are required *in perpetuity*.
- **Signage and Physical Barriers.** Signage will be installed along the main access road that connects to the terminus of West C Street, warning of the presence of landfill waste and potential risk to human health, along with a gate or other physical restriction on the access road. A fence with signage will be installed surrounding the landfill area to minimize accessibility from areas other than the access road. Installation of physical barriers is discussed in Section 3.4.

- **Monitoring.** Long-term monitoring will be conducted to ensure the remedy remains protective over time. The I, M, and M program will include the following:
 - Periodic inspection of Site conditions to ensure integrity of the soil cap, signage, and physical barriers
 - Maintenance of the remedy (e.g., removal of large or deep-rooted vegetation from the cap area¹ and filling of eroded areas), performed on an as-needed basis
 - Semiannual groundwater monitoring at the four existing monitoring wells for iron and manganese concentrations to demonstrate groundwater protection
 - Annual topographic surveys for at least the first 5 years following construction, to compare with as-built conditions and demonstrate soil cap stability
 - Periodic reporting of I, M, and M activities to Ecology, including 5-year reviews
- The initial topographic survey and initial semiannual groundwater monitoring event are described in Sections 4.1 and 4.2 respectively.

3 Cleanup Construction Activities

This section describes the cleanup construction activities related to the engineering concepts for the cleanup action, including landfill waste relocation and consolidation, low permeability soil cap construction, and installation of physical barriers. Photographs of cleanup construction activities are included as Appendix A.

3.1 Cleanup Construction Overview

Through a competitive bid process, the City awarded the contract to Brumfield Construction (Brumfield; Contractor) of Aberdeen, Washington. Brumfield self-performed the landfill waste consolidation and soil cap construction components of the work.

Brumfield mobilized to the Site and completed worker orientation, surveying, clearing and grubbing activities, and construction of access roads in early January 2023. Waste excavation activities began on January 9, 2023, with excavation of landfill waste extending south of the Property boundary onto the south-adjointing property owned by Miles Sand & Gravel Co. (Miles) for consolidation into the landfill on the Property. During waste excavation activities on the south-adjointing property, it became apparent that the horizontal and vertical extents of the waste were greater than anticipated and shown in the plans. On approximately January 17, 2023, cleanup construction activities

¹ Trees would not be allowed to grow in the capped area, since roots of large trees could extend into the landfill waste and bring it to the surface if a tree is blown over (for example).

were paused for 12 weeks to allow for modification of the excavation plans and specifications for an aurally larger and vertically deeper excavation on the south-adjointing property (see Section 3.2). Cleanup construction resumed on April 12, 2023. The remaining landfill waste consolidation activities were completed by May 30, 2023 (Section 3.2). Construction of the low permeability cap and installation of the physical barriers on the Property were primarily completed between April 25, 2023, and June 14, 2023, respectively (Sections 3.3 and 3.4). Initial post-construction monitoring activities occurred on June 26, 2023 (initial topographic survey; Section 4.1) and August 3, 2023 (initial semiannual groundwater monitoring; Section 4.2).

Aspect was the engineering firm responsible for overseeing, monitoring, and reporting the cleanup construction activities (Engineer). Aspect provided regular status updates to Ecology throughout the duration of the cleanup construction activities in the form of email updates and formal progress reports, and consulted with the City and Contractor daily to weekly.

3.2 Landfill Waste Consolidation

This section describes the activities related to relocating contaminated soil and solid waste present on the south-adjointing property, consolidation of that waste to within the footprint of the low permeability soil cap area located on Property, and restoration activities conducted at the south-adjointing property.

The results of the RI indicated that municipal solid waste extended onto the south-adjointing property to an estimated extent of up to 20 feet south of the Property line. Initial efforts to relocate and consolidate the solid waste onto the Property suggested that the actual extent of the solid waste was greater than anticipated. To delineate the actual vertical and horizontal extent of waste beyond the Property line, exploratory test pits and soil borings were performed on the south-adjointing property, following execution of the Access Agreement between the City and Miles on July 9, 2022, and its amendments dated December 2, 2022 and February 10, 2023. Aspect observed 20 direct-push soil borings, designated AB-01 through AB-20 and nine test pits, designated ATP-01 through ATP-09 to determine the limits of the waste on the south-adjointing property and to inform excavation planning and material quantities. The borings were advanced from the existing ground surface to maximum depths of 45 feet, through fill and landfill waste (where encountered) to underlying native soil consisting of recessional outwash silt and sand (Aspect, 2023).

Excavation, consolidation, and restoration activities are summarized below:

- **Excavation.** Based on the explorations, the excavation for removal of landfill waste from the south-adjointing property extended to approximately 165 feet south of the Property line and 380 feet in the east-west direction, and extended vertically to 20 to 40 feet bgs, or elevation 123 feet (NAVD88). The lateral extent of the landfill waste consolidation excavation on the south-adjointing property is shown on Figure 2.
- **Landfill Waste Consolidation.** Excavated landfill waste and other material the Engineer deemed unsuitable for use as waste excavation backfill was placed in

existing ground surface depressions in the landfill area on the Property within the footprint of the low permeability soil cap. The waste and unsuitable material was compacted by the Contractor.

- Restoration.** Excavation of the landfill waste on the south-adjointing property required temporary removal of an approximately 25-foot-tall berm road to reach the underlying landfill waste. Restoration activities on the south-adjointing property included backfilling the excavation using overburden materials approved by the Engineer and native borrow soil sourced from the Property, and re-construction of the berm road. Backfill material sourced from the on-Property borrow area generally consisted of native sand and gravel that was hauled from the Property to the excavation using off-road haul trucks. Backfill was placed and graded level in approximately 2-foot-thick lifts using bulldozers. Each lift was compacted using a vibratory smooth drum roller. The final elevation of the berm road was lower than it was before the excavation; this lower elevation was approved by the south-adjointing property owner. Following reconstruction of the berm road by the Contractor, the City placed a layer of crushed rock to surface the road.

3.3 Low Permeability Soil Cap Construction

Construction of the low permeability soil cap over the full extent of the contaminated soil and solid waste (collectively, the landfill waste) is the primary engineering control to prevent receptor exposure to landfill waste. In order from deepest to shallowest, the soil cap consists of a foundation layer, a geotextile isolation barrier, a layer of imported clean low permeability soil, and a vegetative layer of topsoil seeded with grasses, and complies with landfill closure specifications in WAC 173-304-460(e). Table 1 summarizes the approximate final quantities and sources for each of these layers:

Table 1. Soil Cap Construction Quantities

| Description | Quantity | Source |
|--------------------------------|------------|--------------------|
| Foundation Layer | 9,913 CY | On-Property Borrow |
| Geotextile Isolation Barrier | 191,900 SF | ACF West Inc. |
| Imported Low Permeability Soil | 12,340 CY | Delphi Quarry |
| Topsoil | 3,550 CY | Delphi Quarry |

Notes:

CY – cubic yards
 SF – square feet

Additional description of these layers, the work completed to prepare and construct them, and inspection and quality control are presented in the following sections. The record drawings provided in Appendix B include the as-built topographic survey for the top of each soil cap layer.

3.3.1 Surface Preparation

The existing ground surface within the soil cap area was cleared and grubbed of all vegetation. As indicated in Section 2.1, existing ground surface depressions were filled

with landfill waste and geotechnically unsuitable materials excavated from the south-adjacent property. Once the existing ground surface depressions were filled, the remaining landfill waste and unsuitable materials were placed, graded, and compacted in a ‘dome’ configuration with side slopes between 2 and 33 percent in accordance with WAC standards (WAC 173-304-460).

3.3.2 Foundation Layer

The foundation layer consisted of a 2-foot-thick layer of native sand and gravel (sourced from the on-Property borrow area) placed directly over the landfill waste and geotechnically unsuitable material. The two-foot-thickness was necessary (and agreed upon by Aspect, the Contractor, and the City) to create a ‘bridge’ over the wet/saturated landfill waste and geotechnically unsuitable materials derived from the off-Property waste excavation so that the necessary level of compaction of the overlying low permeability soil layer could be achieved. Where appreciably soft landfill waste and unsuitable materials were present in the northern approximately 1/3 of the soil cap area, concrete rubble was placed first and capped with the native sand and gravel so that no sharp concrete edges or points could protrude into the overlying geotextile. The foundation layer was generally placed in two 12-inch-thick lifts that were graded with a bulldozer to match the dome-shaped surface of the underlying landfill waste. Each lift was compacted with a vibratory smooth drum roller.

3.3.2.1 Inspection and Quality Control

Aspect was on site on a nearly continuous basis to observe and inspect placement and compaction of the foundation layer. Aspect qualitatively evaluated compaction of the foundation layer by observing the behavior of the material when passed over by heavy construction equipment, and by hand-probing with a T-probe. Through the inspections, Aspect verified that the foundation layer was placed and compacted to a relatively firm and unyielding condition, in accordance with the project specifications.

In addition to the qualitative inspections completed by Aspect, the Contractor hired a materials testing firm (Materials Testing and Consulting, Inc) to conduct in-place density testing on the compacted foundation layer materials. The density testing indicated foundation layer materials were compacted to levels ranging between 76 to 99 percent of the materials’ maximum dry density. The required level of compaction for the foundation layer per the project specifications is 85 percent. Based on our observations, we conclude the density tests below this value were likely due to the material at those test locations being different than the proctor material and/or were influenced by the soft waste and unsuitable materials below. Based on our visual/manual inspection of the material and our observations of the compactive effort applied by the Contractor, we conclude the foundation layer was acceptable as constructed.

3.3.3 Geotextile Isolation Barrier

A geotextile isolation barrier was laid over the top of the foundation layer for the purpose of preventing terrestrial contact with underlying landfill waste. The geotextile isolation barrier was anchored in an anchor trench around the perimeter of the soil cap. The manufacturer’s specifications for the geotextile are included as Appendix C.

3.3.3.1 Inspection and Quality Control

Aspect verified the geotextile that was used matched the geotextile that was originally submitted by the Contractor and accepted by Aspect prior to the start of construction. Aspect was on site on a nearly continuous basis to observe excavation of the anchor trench and to inspect placement of the geotextile isolation barrier. We verified the anchor trench depth and width were in accordance with the plans, the geotextile was placed under tension with minimal wrinkles, and that adjacent rolls of geotextile overlapped at least 6 inches at the seams in accordance with the plans.

3.3.4 Imported Low Permeability Soil

A 2-foot-thick layer of imported low permeability soil meeting the requirements of WAC 173-304-460(3)(e)(i) was placed over the geotextile isolation barrier. The low permeability soil was placed in 6- to 12-inch-thick lifts that were graded with a bulldozer to match the dome-shaped surface of the underlying foundation layer. Each lift was compacted with a vibratory sheepsfoot roller.

3.3.4.1 Testing, Inspection, and Quality Control

3.3.4.1.1 Chemical Testing

The low permeability soil consisted of native soil from the Contractor's rock quarry (Delphi Quarry). The Contractor submitted samples of the low permeability soil to a laboratory for testing to determine the materials' chemical properties in accordance with the CAP, as follows:

- A total of 34 representative soil samples were collected by the Contractor and analyzed by a Washington State-accredited laboratory for the following:
 - Gasoline-, diesel-, and oil-range petroleum hydrocarbons using Northwest Methods NWTPH-Gx and NWTPH-Dx.
 - MTCA 5 metals, including arsenic, cadmium, chromium, lead, and mercury,
 - Polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270.

The analytes tested were not detected above the laboratory reporting limits with the exception of chromium, which was detected in all 34 samples ranging from 7 to 18 mg/kg. Detected concentrations of chromium and reporting limits for undetected analytes are below the standard MTCA Method A/B soil cleanup levels for unrestricted land use, established as the applicable and acceptable soil quality criteria in Table A-2 of the Compliance Monitoring Plan included with the EDR (Aspect, 2022a); therefore, the imported material was determined to be acceptable for construction of the low permeability layer of the soil cap. Chemical testing laboratory reports are included in Appendix D.

3.3.4.1.2 Laboratory Permeability and Proctor Tests

The Contractor submitted samples of the low permeability soil to a materials testing laboratory (HWA Geosciences, Inc) to conduct moisture-density-permeability relationship tests (Proctor tests and hydraulic conductivity tests). The testing showed that the permeability specification (a permeability of no more than 1×10^{-6} cm/sec) is met if the material is compacted to at least 93 percent of its maximum dry density. The laboratory Proctor tests and hydraulic conductivity tests are included in Appendix E.

3.3.4.1.3 Inspection and Quality Control

Aspect was on site on a nearly continuous basis to observe and inspect placement and compaction of the low permeability soil layer. Aspect verified the imported low permeability material was consistent with the materials submitted for laboratory testing by the Contractor. Aspect qualitatively evaluated compaction of the low permeability soil layer by observing the behavior of the material when passed over by heavy construction, and by hand-probing with a T-probe. Through these inspections, Aspect verified the low permeability soil layer was placed and compacted to a relatively firm and unyielding condition in accordance with the project specifications. Aspect also verified the final thickness of the low permeability soil layer was 2 feet based on grade stakes that were established by the Contractor under observation by Aspect. The use of grade stakes to verify thickness of the low permeability soil layer and overlying topsoil layer was collectively agreed upon by Aspect and the Contractor due to the substantial thickness of the soft landfill waste, which will compress as additional material is placed over it to construct the cap and make surveying an inaccurate means to verify the final thickness.

In addition to the qualitative inspections completed by Aspect, the Contractor's material testing subcontractor conducted in-place density testing on the compacted low permeability soil layer materials. The density testing indicated the low permeability soil materials were compacted to at least 93 percent of the materials' maximum dry density to meet the permeability specification. In cases where the density testing showed a level of compaction that did not meet the permeability specification (i.e., less than 93 percent of the material's maximum dry density), the Contractor stopped working the material and allowed it to dry out, recompacted the material, and re-tested compaction. The re-tests showed that the materials were compacted to at least 93 percent of their maximum dry density to meet the permeability specification. The density test field reports from the Contractor's materials testing subcontractor are included in Appendix F.

3.3.5 Vegetative Topsoil

A 6-inch-thick layer of vegetative topsoil was placed over the imported low permeability soil layer. The topsoil material was the same material as the low permeability soil layer (native overburden stripped from the Contractor's quarry, which meets the specification for Topsoil Type C per the Washington State Department of Transportation (WSDOT) Standard Specifications and consistent with the requirements of WAC 173-304-460(3)(e)(iii)), except that the Contractor screened out all particles larger than 3 inches in diameter. The vegetative topsoil was placed in a single 6-inch-thick layer that was graded with a bulldozer to match the dome-shaped surface of the underlying low permeability soil layer. The vegetative topsoil was not compacted. Following placement of the topsoil layer, it was hydroseeded to establish vegetative cover and prevent erosion.

3.3.5.1 Inspection and Quality Control

Aspect verified the final thickness of the topsoil layer was 6 inches based on grade stakes that were established by the Contractor under observation by Aspect.

3.3.6 Deviations from the Plans

During construction, we noted the following deviations from the plans related to the soil cap construction:

1. **Limits of the soil cap.** The limits of the soil cap were modified based on field conditions and actual landfill waste extents revealed during construction. This included extending the soil cap to the south property line and reducing the northern extent of the soil cap.
2. **Elevation of the soil cap.** The final elevations of the soil cap were higher than originally planned due to the increased volume of landfill waste excavated from the south-adjacent property and the need to construct a 2-foot-thick foundation layer over the landfill waste as previously discussed.
3. **Topsoil thickness.** The thickness of the topsoil layer was reduced from 12 inches to 6 inches with approval from the Engineer. A minimum topsoil thickness of 6 inches is specified in WAC 173-304-460(3)(e)(iii).
4. **Anchor trench modification.** The location of the anchor trench on the south side of the soil cap area was modified to be within the footprint of the soil cap which extends up to the Property boundary. The modified anchor trench detail is shown in the record drawings (Appendix B).

Aspect concludes the deviations described above conform with landfilling standards in WAC 173-304-460 and engineering concepts presented in the EDR, and therefore are acceptable.

3.3.7 Soil Cap Conformance with WAC Standards

Table 2 summarizes the WAC landfill soil cap design standards and the as-built soil cap condition.

Table 2. Soil Cap Design Standards and As-Built Conditions

| Item | WAC Standard | As-Built Condition |
|---------------------------------------|-----------------------------------|--------------------------------------|
| Thickness of low permeability soil | 2 feet | 2 feet |
| Permeability of low permeability soil | 1 x 10 ⁻⁶ cm/sec (max) | 1 x 10 ⁻⁶ cm/sec or lower |
| Topsoil thickness | 6 inches | 6 inches |
| Surface Slopes Grade | 2 to 33 percent | Up to 23 percent |

See Figure 2 for a map of the soil cap with contoured surface elevations.

3.4 Physical Barriers

Physical barriers to discourage unauthorized access to the landfill cap area consisted of chain-link fencing and signage. The new 6-foot-tall chain-link fencing was installed around the perimeter of the soil cap, with two locking 12-foot-wide double swing gates on the east and west sides of the cap. Signage was posted at each gate and at approximately 300-foot spacing along the fencing surrounding the soil cap, with the following text appearing in both English and Spanish languages:

Restricted Area – No Trespassing
City of Shelton Property
Contamination Cleanup In Progress
Contact: Andrew Smith, Dept. of Ecology
Phone: (360) 407-6316

Pictures of the fencing and signage are included in Photographs 9, 10, and 11 in Appendix A.

3.5 Final Inspection

The final inspection of the cleanup construction activities was conducted on June 14, 2023 by the Engineer. On that date, the Engineer noted the following:

- Construction of the physical barriers (fencing and signage) was complete.
- Construction of the soil cap was complete, with side slopes ranging from about 12 to 13 degrees (21 to 23 percent; below the maximum allowable grade of 33 percent per WAC 173-304-460).
- The surface of the landfill cap was hydroseeded, as were areas beyond the soil cap that had been disturbed by cleanup construction activities.
- Groundwater monitoring wells AMW-1, AMW-2, and AMW-4 remained in-place, accessible, and protected by bollards.²
- Construction of the access road and berm on the south-adjointing property was complete, with a thin layer of crushed rock placed at ground surface.

No additional or outstanding on-site cleanup construction work items were observed. The record drawings for the soil cap are included as Appendix B.

4 Post-Construction Confirmational Monitoring

Post-construction confirmational monitoring is described in this section. The purpose of the confirmational monitoring is to confirm the long-term effectiveness of the cleanup action once the cleanup standards have been met at the points of compliance.

Confirmational monitoring includes visual inspections of the soil cap and physical barriers, topographic surveys to demonstrate little-to-no settlement of the soil cap, and groundwater sampling to demonstrate little-to-no leachate generation.

4.1 Topographic Survey

Following construction of the soil cap, licensed surveyor Apex Engineering of Tacoma, Washington performed an initial post-construction survey on June 26, 2023. The initial post-construction survey consisted of establishing eight settlement survey benchmarks, spaced roughly equally across the soil cap, to be used for annual settlement monitoring.

² Well AMW-3 is located outside of the cleanup construction area and remains in-place and accessible.

The locations of the benchmarks are shown on Figure 2 and in the survey report included in Appendix G.

The eight benchmarks will be re-surveyed annually. The next survey event will occur in June 2024, at which time the surveyor will attest to whether the settlement criteria have been met. Settlement criteria are established by Ecology in the Addendum to “Preparing for Termination of Post-Closure Activities at Landfills Closed under Chapter 173-304 WAC” guidance document.

4.2 Groundwater Monitoring

The first post-construction groundwater monitoring event occurred on August 3, 2023, and the second post-construction groundwater monitoring even is scheduled for February 2024. Results of the first and second events will be presented in an annual groundwater monitoring report, prepared following the February 2024 event.

Groundwater monitoring events will continue on a semiannual basis occurring in August and February of each year for a minimum period of 5 years (through February 2028) and for at least 2 years after compliance is achieved. Compliance will be achieved when the average concentration of four consecutive sampling events is below the cleanup level or background concentration.

5 Conclusion

Cleanup construction activities at the Site occurred between January 9 and June 14, 2023, with oversight and final inspection performed by Aspect on behalf of the City of Shelton. Based on the observations during construction, it is the opinion of the Engineer that the cleanup construction was completed in accordance with standard industry practices, in compliance with the technical specifications, and in accordance with the CAP (Ecology, 2021) and EDR (Aspect, 2022) approved by Ecology.

6 References

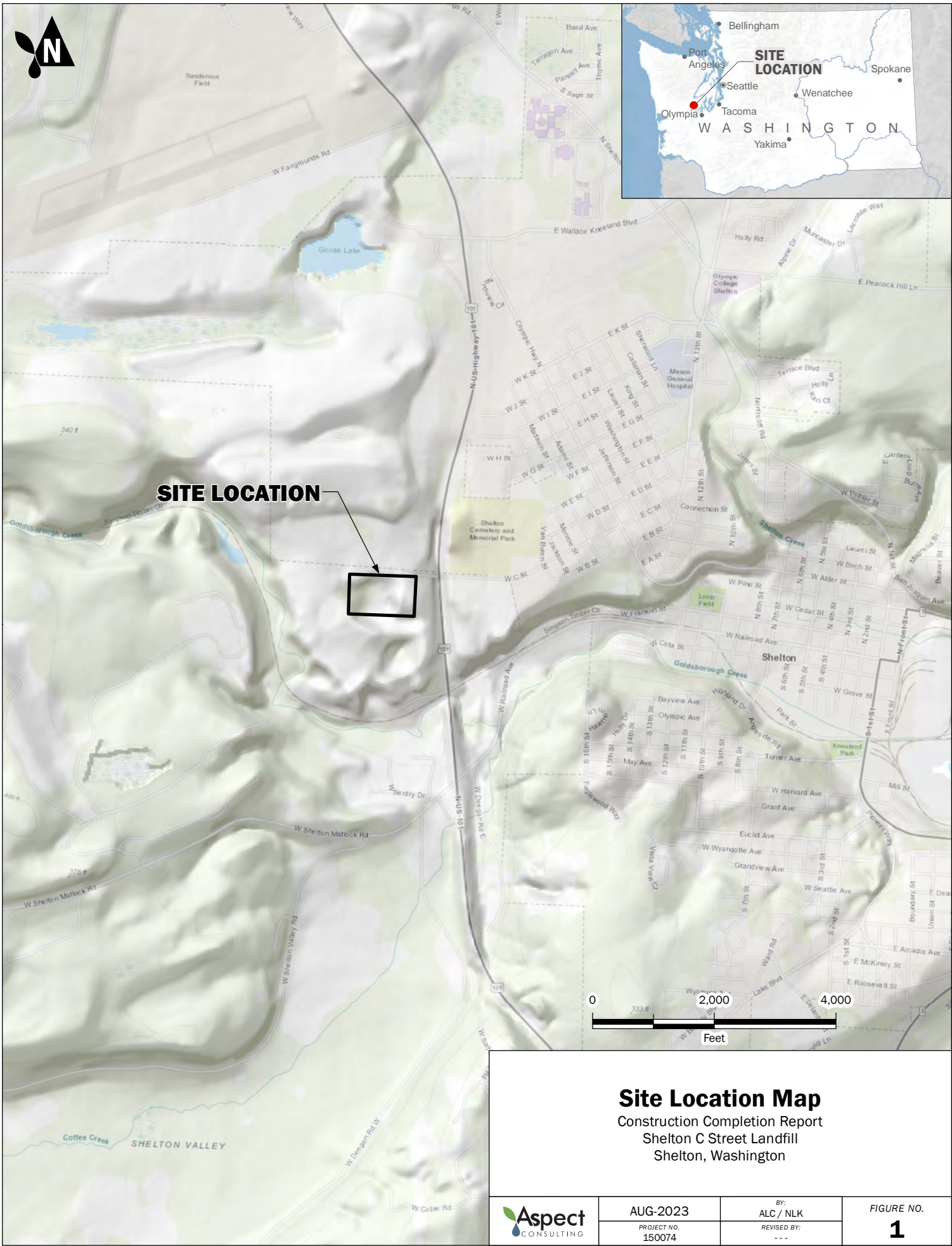
- Aspect Consulting, LLC (Aspect), 2021, Final Remedial Investigation and Feasibility Study Report, Shelton C Street Landfill, Shelton, Washington, December 16, 2021.
- Aspect Consulting, LLC (Aspect), 2022, Engineering Design Report, Shelton C Street Landfill, Shelton, Washington, July 11, 2022.
- Aspect Consulting, LLC (Aspect), 2023, Geotechnical Engineering Recommendations, C Street Landfill Waste Excavation Expansion, Shelton, Washington, April 3, 2023.
- Washington State Department of Ecology (Ecology), 2021, Cleanup Action Plan, Shelton C Street Landfill, City of Shelton, August 10, 2021.

7 Limitations

Work for this project was performed for the City of Shelton (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

FIGURES



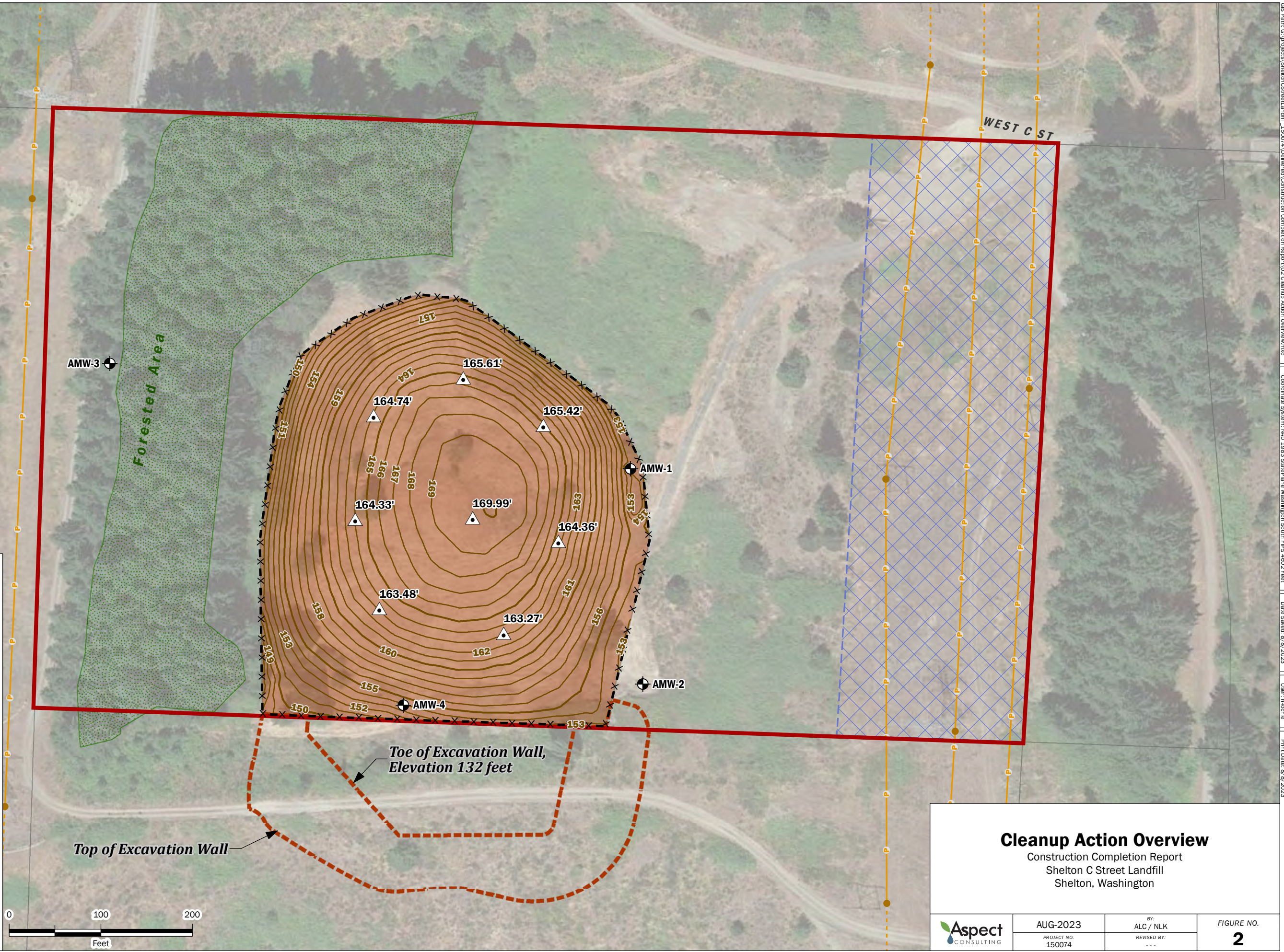
SITE LOCATION

Site Location Map
 Construction Completion Report
 Shelton C Street Landfill
 Shelton, Washington

| | | | |
|--|-----------------------|--------------------|------------------------|
| | AUG-2023 | BY: ALC/NLK | FIGURE NO. 1 |
| | PROJECT NO. 150074 | REVISED BY: --- | |

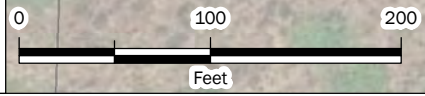
Basemap Layer Credits || Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

GIS Path: G:\projects\Shelton\Street\anr\11_15074\Delivered\Construction Completion Report\01 Site Location Map.mxd | Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet | Date Saved: 8/1/2023 | User: mcochie | Print Date: 8/1/2023



- Settlement Survey Benchmarks
- Landfill Cap
- Extent of Landfill Waste Consolidation Excavation on South-Adjoining Property
- Contour Major
- Contour Minor
- Chain Link Fence
- Point of Compliance Groundwater Monitoring Well
- Landfill Parcel
- Forested Area
- Transmission Line Easement
- Transmission Tower
- Transmission Line
- Tax Parcel

Note: All site feature locations are approximate. Aerial imagery from Google Satellite Imagery.



| | | | |
|--|-----------------------|--------------------|------------|
| Cleanup Action Overview | | | |
| Construction Completion Report Shelton C Street Landfill Shelton, Washington | | | |
| | AUG-2023 | BY: ALC / NLK | FIGURE NO. |
| | PROJECT NO. 150074 | REVISED BY: --- | 2 |

GIS Path: G:\Projects\SheltonCStreetLandfill_150074\Delivered\Construction Completion Report\02 Cleanup Action Overview.mxd | Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet | Date Saved: 8/8/2023 | User: mchole | Print Date: 8/8/2023

APPENDIX A

Photographs



Photograph 1. View of the Property landfill area prior to the start of cleanup construction, during vegetation grubbing. Photo faces south-southwest.



Photograph 2. View of the Property landfill area following vegetation grubbing. Photo faces west.



Photograph 3. Exploratory drilling on the south-adjointing property to delineate the extent of landfill waste beyond the south Property boundary. Photo faces west.



Photograph 4. Landfill waste relocation excavation on south-adjointing property. Landfill waste shown in dark-colored layers. Photo faces north.



Photograph 5. Backfill and compaction of landfill waste relocation excavation on south-adjacent property. Photo faces north.



Photograph 6. Construction of foundation layer on Property. Wells AMW-02 and AMW-03 are shown. Photo faces west-northwest.



Photograph 7. Installation of geotextile barrier. Photo faces north-northeast.



Photograph 8. Placement of low permeability soil overlying geotextile barrier. Photo faces north-northeast.



Photograph 9. Hydroseeded areas following completion of cleanup construction. Photo faces northwest.



Photograph 10. Reconstructed access road on south-adjointing property, following completion of cleanup construction. Photo faces west.



Photograph 11. Typical fencing and signage installed around soil cap on the Property.

APPENDIX B

Record Drawings

CLEANUP ACTION RECORD DRAWINGS

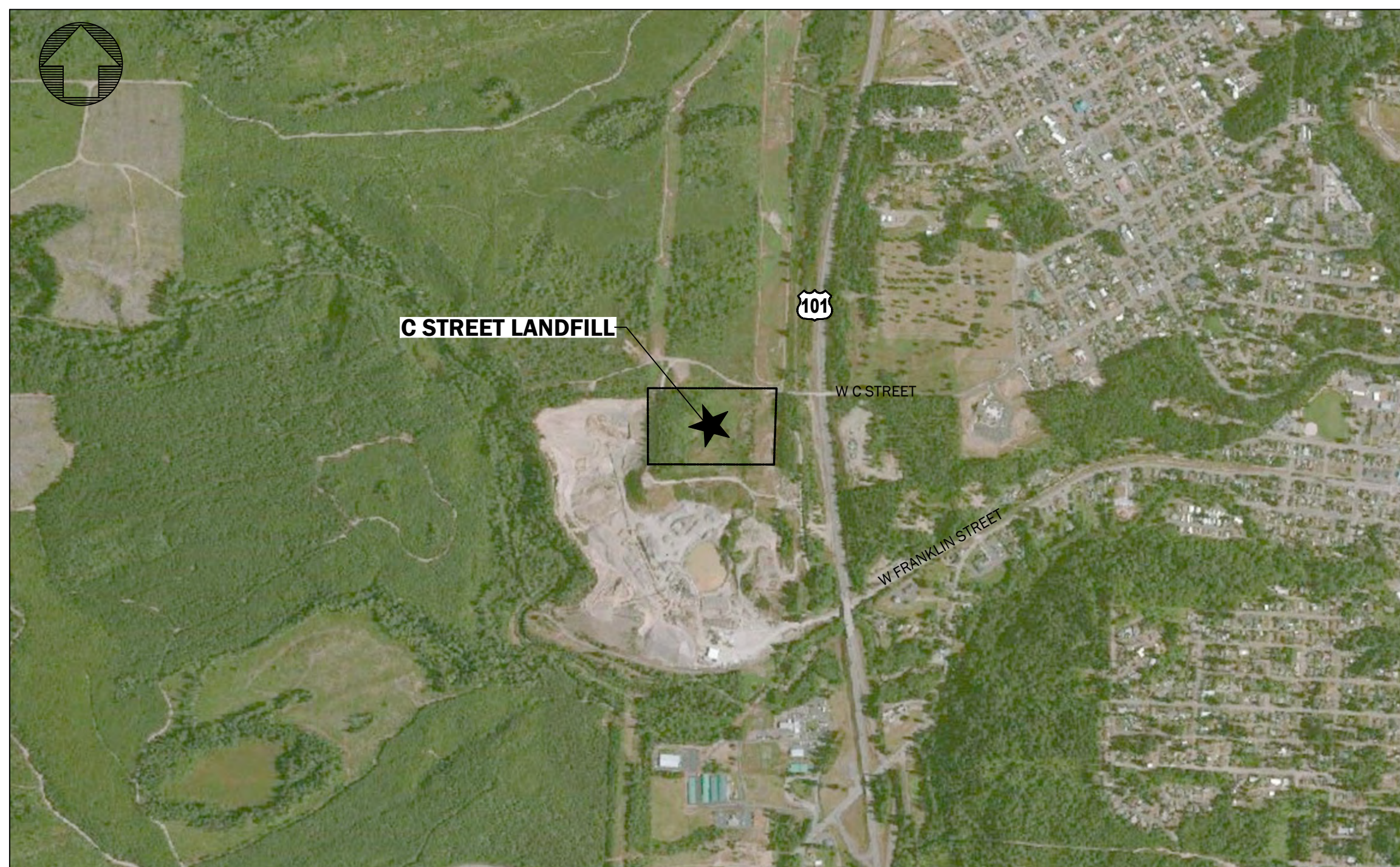
SHELTON C STREET LANDFILL

SHELTON, WASHINGTON

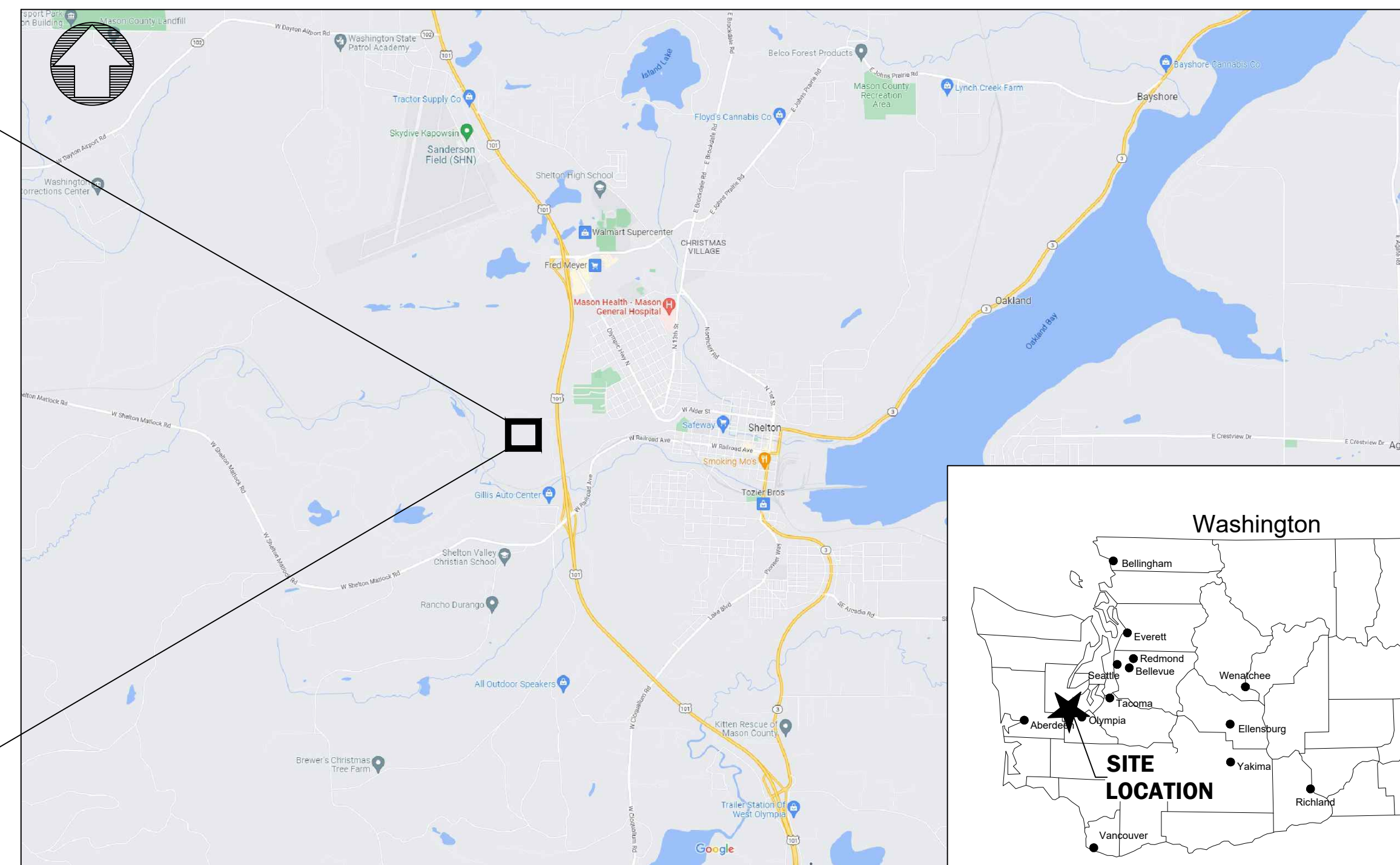


08/17/2023

| DATE | DESCRIPTION | APPR. |
|------------|-------------------------|-------|
| 11/18/2022 | ISSUED FOR CONSTRUCTION | SEA |
| 8/17/2023 | RECORD DRAWINGS | ECS |

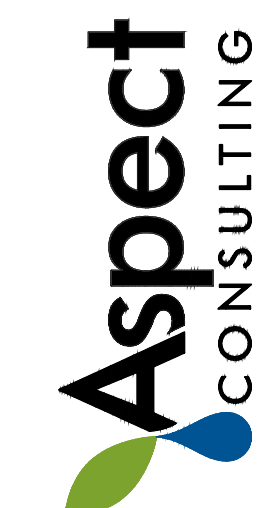


VICINITY MAP (BING)
0 1000 2000 Feet



LOCATION MAP (GOOGLE)
0 4000 8000 Feet

| REV. | DESCRIPTION | DESIGNED BY | DRAWN BY | CMV |
|------|-------------------------|-------------|----------|-----|
| 0 | ISSUED FOR CONSTRUCTION | ECS | CMV | |
| 1 | RECORD DRAWINGS | ECS | CMV | |



COVER, LOCATION MAP, AND DRAWING INDEX
CLEANUP ACTION CONSTRUCTION PLANS
SHELTON C STREET LANDFILL
SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:
G-01
SHEET 1 OF 6

CALL 2 WORKING DAYS BEFORE YOU DIG: 811 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



ENGINEER:
ASPECT CONSULTING, LLC
710 SECOND AVE, SUITE 550 SEATTLE, WA 98104
ATTN: ERIC SCHELLENGER, P.E.
206-780-7745

PROPERTY OWNER AND LEGAL DESCRIPTION
ADDRESS: 525 W COTA ST
OWNER: CITY OF SHELTON, WASHINGTON
SEC-TWN-RNG-QTR: SEC 24, TWP 20, RNG 4W (NE-NW/4)
LEGAL DESCRIPTION: TR43 OF NE NW 45/68

MASON COUNTY PARCEL NO.: 42024-21-60430
LOT AREA SQUARE FOOTAGE: 713,994 SQFT
BUILDING FOOTPRINT SQUARE FOOTAGE: 0 SQFT

BASIS OF SURVEY (EXISTING TOPOGRAPHY)
SURVEY COMPLETED BY: PLS, INC., ISSAQUAH, WASHINGTON, 10/13/2017.
HORIZONTAL DATUM: NAD 83/2011, WASHING COORDINATE SYSTEM, SOUTH ZONE.
VERTICAL DATUM: NAVD 88 WSDOT BENCHMARK "SLEETH" MONUMENT I.D. 49268, PUBLISHED ELEVATION 107.04'.

BASIS OF RECORD DRAWING SURVEY (SOIL CAP ELEVATIONS)
SURVEY COMPLETED BY: MNT 2 COAST PROFESSIONAL LAND SURVEYORS, TUMWATER, WASHINGTON, 05/11/2023.
HORIZONTAL DATUM: NAD 83/2011, WASHINGTON COORDINATE SYSTEM, SOUTH ZONE.
VERTICAL DATUM: NAVD 88 BASED ON CONTROL PROVIDED BY BRUMFIELD.

| SHEET | DESCRIPTION | SHEET NO. |
|-------|---------------------------------------|-----------|
| G-01 | COVER, LOCATION MAP AND DRAWING INDEX | 1 OF 6 |
| C-01 | FOUNDATION LAYER PLAN | 2 OF 6 |
| C-02 | LOW PERMEABILTY SOIL LAYER PLAN | 3 OF 6 |
| C-03 | VEGETATIVE TOP SOIL PLAN | 4 OF 6 |
| C-04 | DETAILS | 5 OF 6 |
| C-05 | FENCE AND SIGNAGE DETAILS | 6 OF 6 |



08/17/2023

| DATE | DESCRIPTION | BY |
|------------|-------------------------|-----|
| 11/18/2022 | ISSUED FOR CONSTRUCTION | SEA |
| 8/17/2023 | RECORD DRAWINGS | ECS |

| REVISION | DESCRIPTION | DATE | BY |
|----------|-------------|------|----|
| 0 | REV. | | |
| 1 | | | |

DESIGNED BY: ECS
 DRAWN BY: CMV
 REVISION: 1
 PROJECT NUMBER: 150074
 DATE: 8/17/2023

FOUNDATION LAYER PLAN
 CLEANUP ACTION CONSTRUCTION PLANS
 SHELTON C STREET LANDFILL
 SHELTON, WASHINGTON



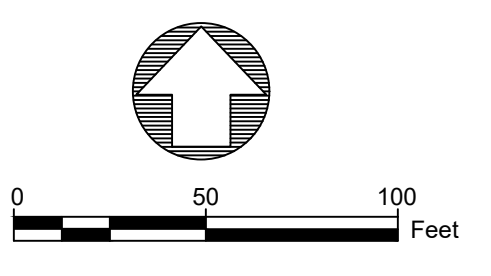
NOTE: FINAL LIMITS OF SOIL CAP WERE MODIFIED BASED ON FIELD CONDITIONS.
 ELEVATIONS ACCURATE AT TIME OF THE SURVEY.

SURVEY LEGEND:

- FOUND MAG NAIL WITH WASHER
- FOUND IRON PIPE W/CAP STAMPED 'SLEETH'
- SET PK NAIL W/WASHER STAMPED 'KAP 49286'
- SET REBAR AND CAP STAMPED 'KAP 49286'
- TREE (CONIFEROUS) WITH TRUNK DIAMETER NOTED
- TREE (DECIDUOUS) WITH TRUNK DIAMETER NOTED
- BOLLARD
- GUY POLE
- UNDERGROUND GAS MARKER
- CONCRETE SURFACE
- GRAVEL SURFACE
- MONITORING WELL
- TPN

LEGEND

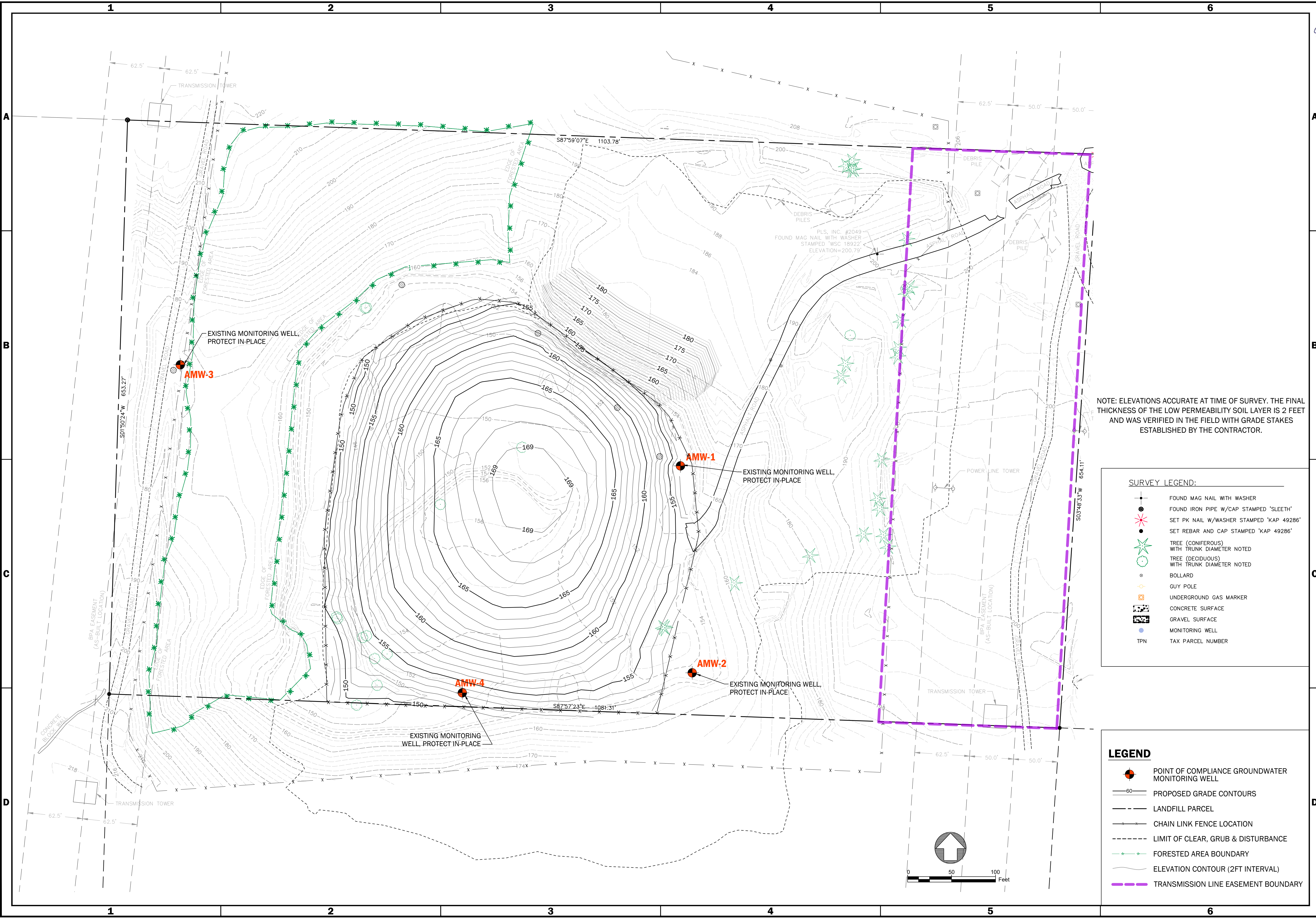
- POINT OF COMPLIANCE GROUNDWATER MONITORING WELL
- PROPOSED GRADE CONTOURS
- LANDFILL PARCEL
- LIMIT OF GEOTEXTILE
- CHAIN LINK FENCE LOCATION
- LIMIT OF CLEAR, GRUB & DISTURBANCE
- ON-PROPERTY BORROW AREA
- 1986 SLUDGE DISPOSAL AREA
- FORESTED AREA BOUNDARY
- ELEVATION CONTOUR (2FT INTERVAL)
- TRANSMISSION LINE EASEMENT BOUNDARY
- WASTE BEYOND LANDFILL PARCEL





08/17/2023

| DATE | REVISION | DESCRIPTION | DESIGNED BY | DRAWN BY | REVIEWED BY |
|--|---|--|-----------------------------|---------------|-------------|
| 8/17/2023 <td>1 <td>ISSUED FOR CONSTRUCTION <td>ECS <td>CMV <td></td> </td></td></td></td> | 1 <td>ISSUED FOR CONSTRUCTION <td>ECS <td>CMV <td></td> </td></td></td> | ISSUED FOR CONSTRUCTION <td>ECS <td>CMV <td></td> </td></td> | ECS <td>CMV <td></td> </td> | CMV <td></td> | |
| 11/18/2022 <td>0 <td>RECORD DRAWINGS <td>ECS <td></td> <td></td> </td></td></td> | 0 <td>RECORD DRAWINGS <td>ECS <td></td> <td></td> </td></td> | RECORD DRAWINGS <td>ECS <td></td> <td></td> </td> | ECS <td></td> <td></td> | | |
| 9/17/2023 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |



NOTE: ELEVATIONS ACCURATE AT TIME OF SURVEY. THE FINAL THICKNESS OF THE LOW PERMEABILITY SOIL LAYER IS 2 FEET AND WAS VERIFIED IN THE FIELD WITH GRADE STAKES ESTABLISHED BY THE CONTRACTOR.

SURVEY LEGEND:

- FOUND MAG NAIL WITH WASHER
- FOUND IRON PIPE W/CAP STAMPED 'SLEETH'
- ✱ SET PK NAIL W/WASHER STAMPED 'KAP 49286'
- SET REBAR AND CAP STAMPED 'KAP 49286'
- ★ TREE (CONIFEROUS) WITH TRUNK DIAMETER NOTED
- ★ TREE (DECIDUOUS) WITH TRUNK DIAMETER NOTED
- ⊙ BOLLARD
- ⊙ GUY POLE
- ⊙ UNDERGROUND GAS MARKER
- CONCRETE SURFACE
- GRAVEL SURFACE
- MONITORING WELL
- TPN

LEGEND

- POINT OF COMPLIANCE GROUNDWATER MONITORING WELL
- PROPOSED GRADE CONTOURS
- - - LANDFILL PARCEL
- - - CHAIN LINK FENCE LOCATION
- - - LIMIT OF CLEAR, GRUB & DISTURBANCE
- ★ FORESTED AREA BOUNDARY
- ELEVATION CONTOUR (2FT INTERVAL)
- - - TRANSMISSION LINE EASEMENT BOUNDARY



LOW PERMEABILITY SOIL LAYER PLAN
CLEANUP ACTION CONSTRUCTION PLANS
 SHELTON C STREET LANDFILL
 SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:
C-02
 SHEET 3 OF 6

GRID: NAD 83; COORDINATE SYSTEM: UTM; DATUM: NAD 83; ELEVATION: MEASUREMENT; SCALE: 1"=40'; DATE: 8/17/2023; TIME: 2:20:08 PM; USER: eric.schellinger



08/17/2023

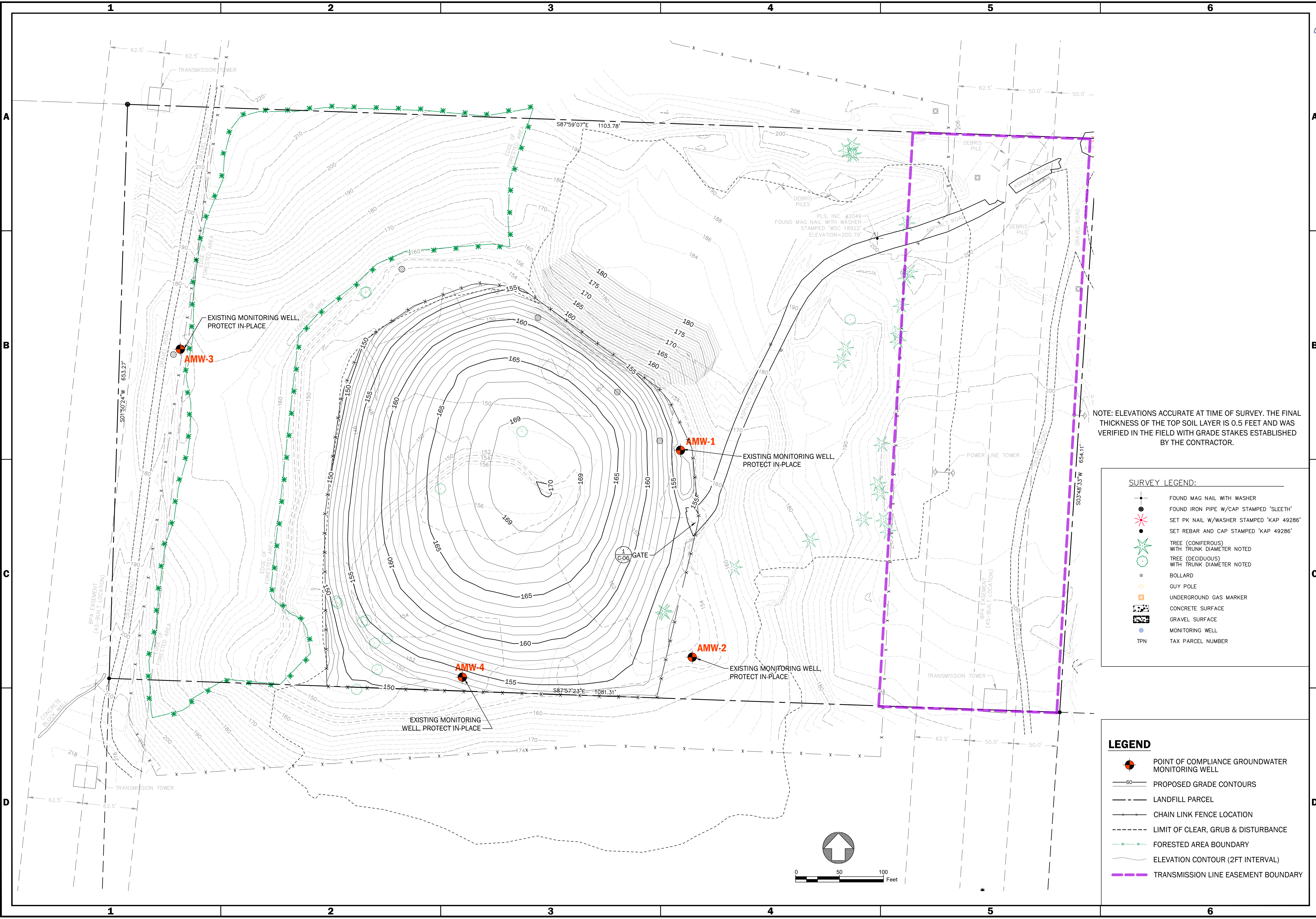
| DATE | REV. | DESCRIPTION |
|------------|------|-------------------------|
| 11/18/2022 | SEA | APPR. |
| 8/17/2023 | ECS | RECORD DRAWINGS |
| 0 | REV. | ISSUED FOR CONSTRUCTION |
| 1 | 0 | 1 |

| DESIGNED BY: | DRAWN BY: | CMV |
|--------------|-----------|-----|
| ECS | CMV | |

| DATE: | REVISION: | PROJECT NUMBER: |
|-----------|-----------|-----------------|
| 8/17/2023 | 1 | 150074 |

VEGETATIVE TOP SOIL PLAN
CLEANUP ACTION CONSTRUCTION PLANS
SHELTON C STREET LANDFILL
SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:
C-03
SHEET 4 OF 6



NOTE: ELEVATIONS ACCURATE AT TIME OF SURVEY. THE FINAL THICKNESS OF THE TOP SOIL LAYER IS 0.5 FEET AND WAS VERIFIED IN THE FIELD WITH GRADE STAKES ESTABLISHED BY THE CONTRACTOR.

SURVEY LEGEND:

- FOUND MAG NAIL WITH WASHER
- FOUND IRON PIPE W/CAP STAMPED 'SLEETH'
- SET PK NAIL W/WASHER STAMPED 'KAP 49286'
- SET REBAR AND CAP STAMPED 'KAP 49286'
- TREE (CONIFEROUS) WITH TRUNK DIAMETER NOTED
- TREE (DECIDUOUS) WITH TRUNK DIAMETER NOTED
- BOLLARD
- GUY POLE
- UNDERGROUND GAS MARKER
- CONCRETE SURFACE
- GRAVEL SURFACE
- MONITORING WELL
- TPN

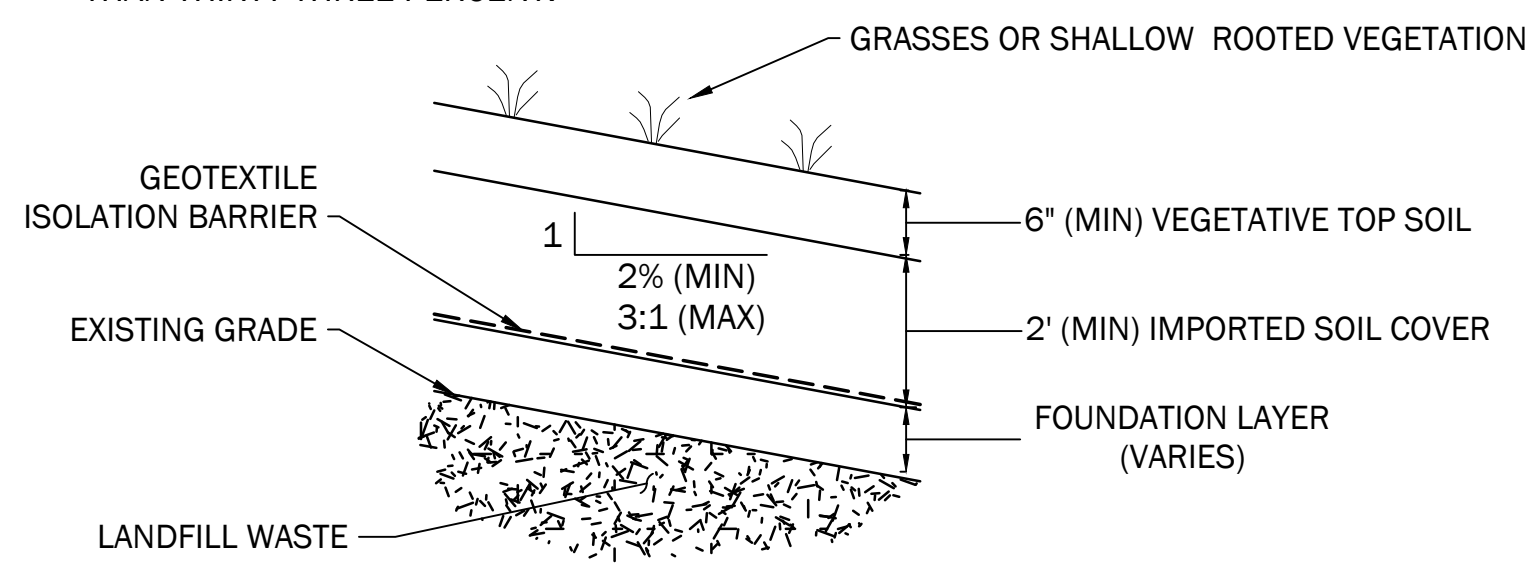
LEGEND

- POINT OF COMPLIANCE GROUNDWATER MONITORING WELL
- PROPOSED GRADE CONTOURS
- LANDFILL PARCEL
- CHAIN LINK FENCE LOCATION
- LIMIT OF CLEAR, GRUB & DISTURBANCE
- FORESTED AREA BOUNDARY
- ELEVATION CONTOUR (2FT INTERVAL)
- TRANSMISSION LINE EASEMENT BOUNDARY



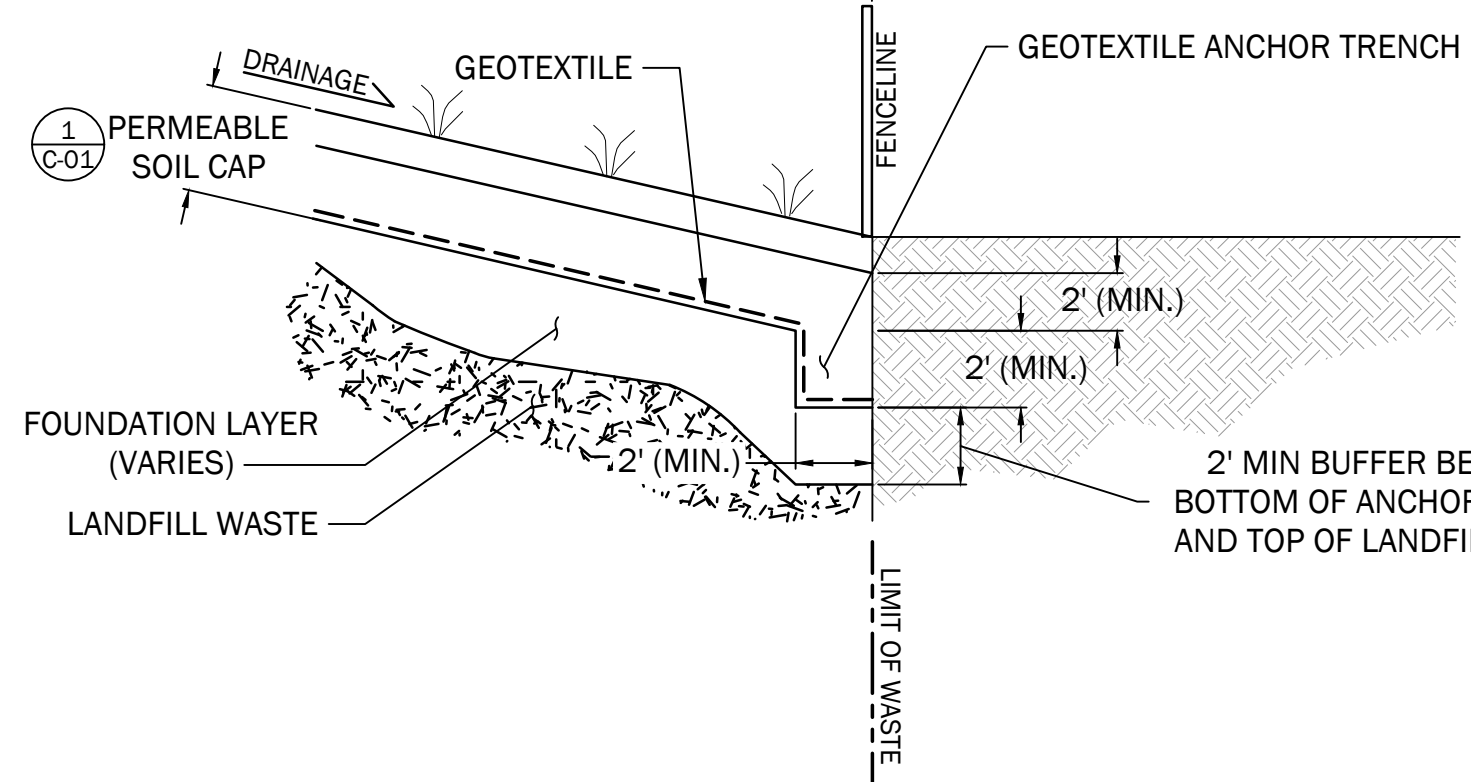
| | | |
|------------|-----|-------------|
| 08/17/2023 | SEA | APPR. |
| 8/17/2023 | ECS | DESIGNED BY |
| 11/18/2022 | SEA | REVISION |
| 0 | 0 | DESCRIPTION |
| 1 | 0 | REVISION |

NOTE:
THE GRADE OF SURFACE SLOPES SHALL NOT BE LESS THAN TWO PERCENT, NOR MORE THAN THIRTY-THREE PERCENT.



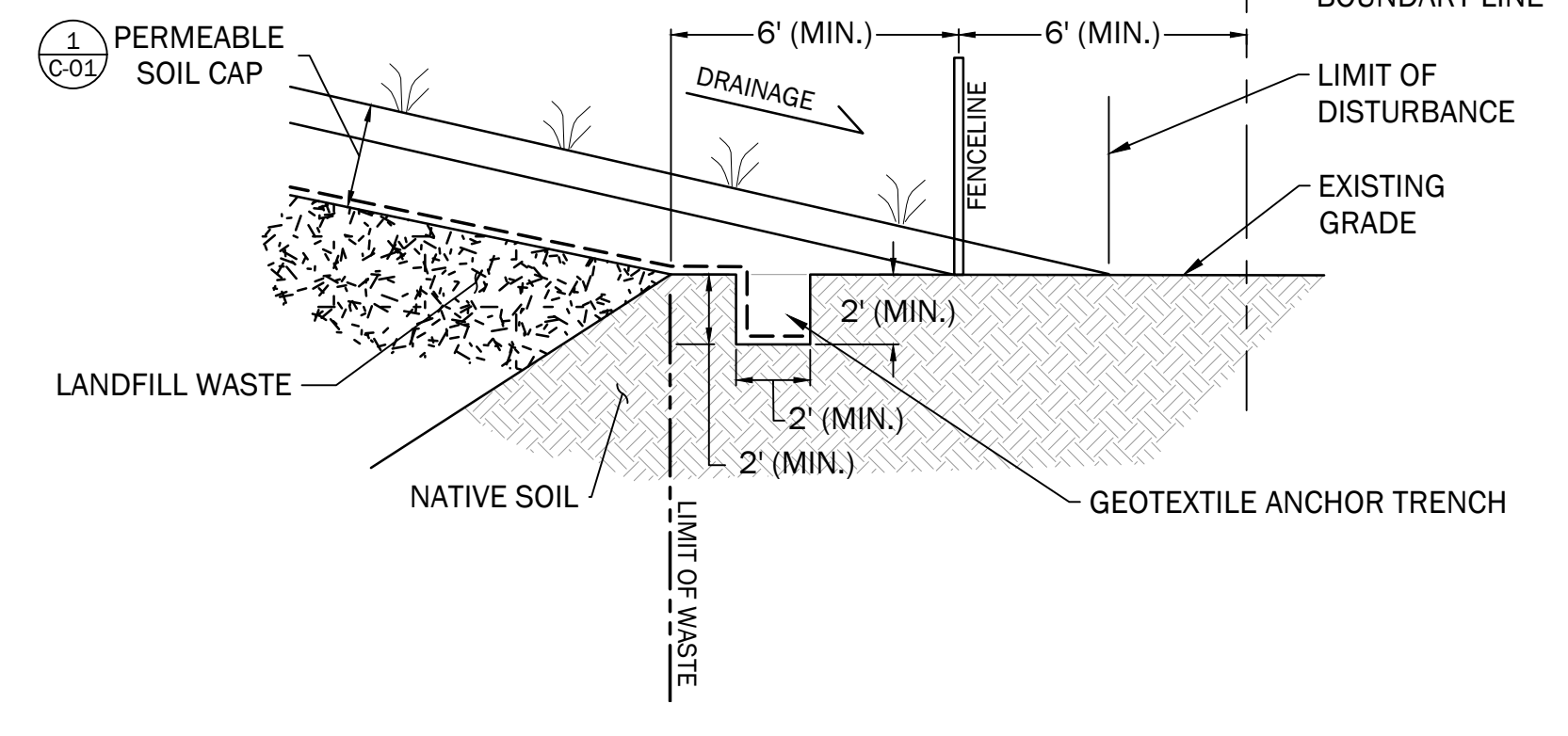
PERMEABLE SOIL CAP 1
NTS C-04

NOTE:
THE GRADE OF SURFACE SLOPES SHALL NOT BE LESS THAN TWO PERCENT, NOR MORE THAN THIRTY-THREE PERCENT.

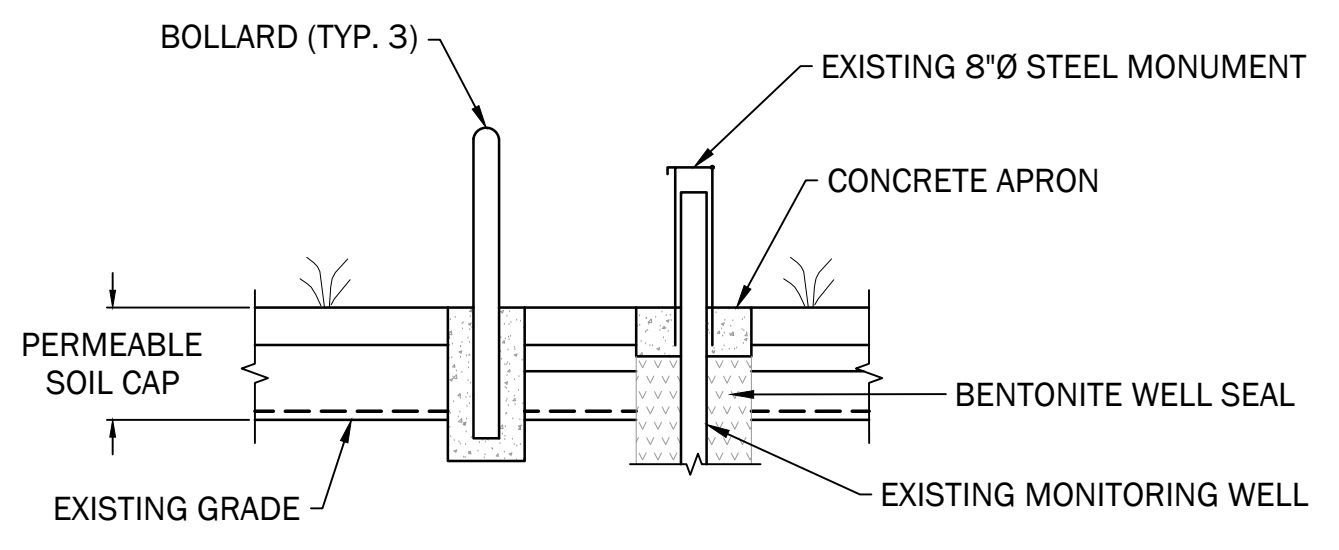


GEOTEXTILE ANCHOR TRENCH - TYPE 1 2
NTS C-04

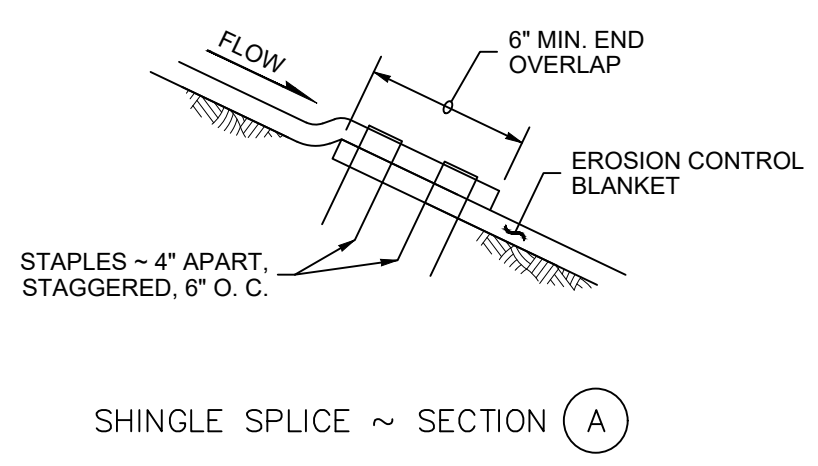
NOTE:
THE GRADE OF SURFACE SLOPES SHALL NOT BE LESS THAN TWO PERCENT, NOR MORE THAN THIRTY-THREE PERCENT.



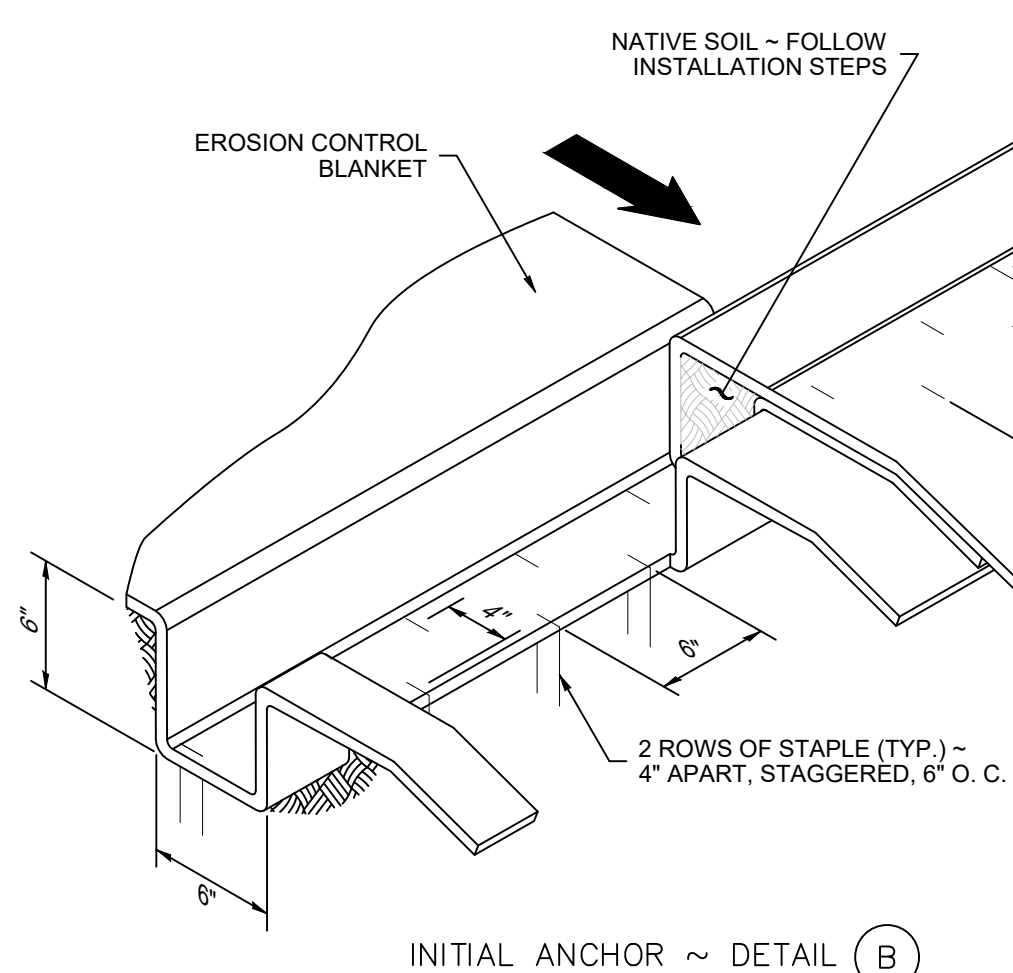
GEOTEXTILE ANCHOR TRENCH - TYPE 2 3
NTS C-04



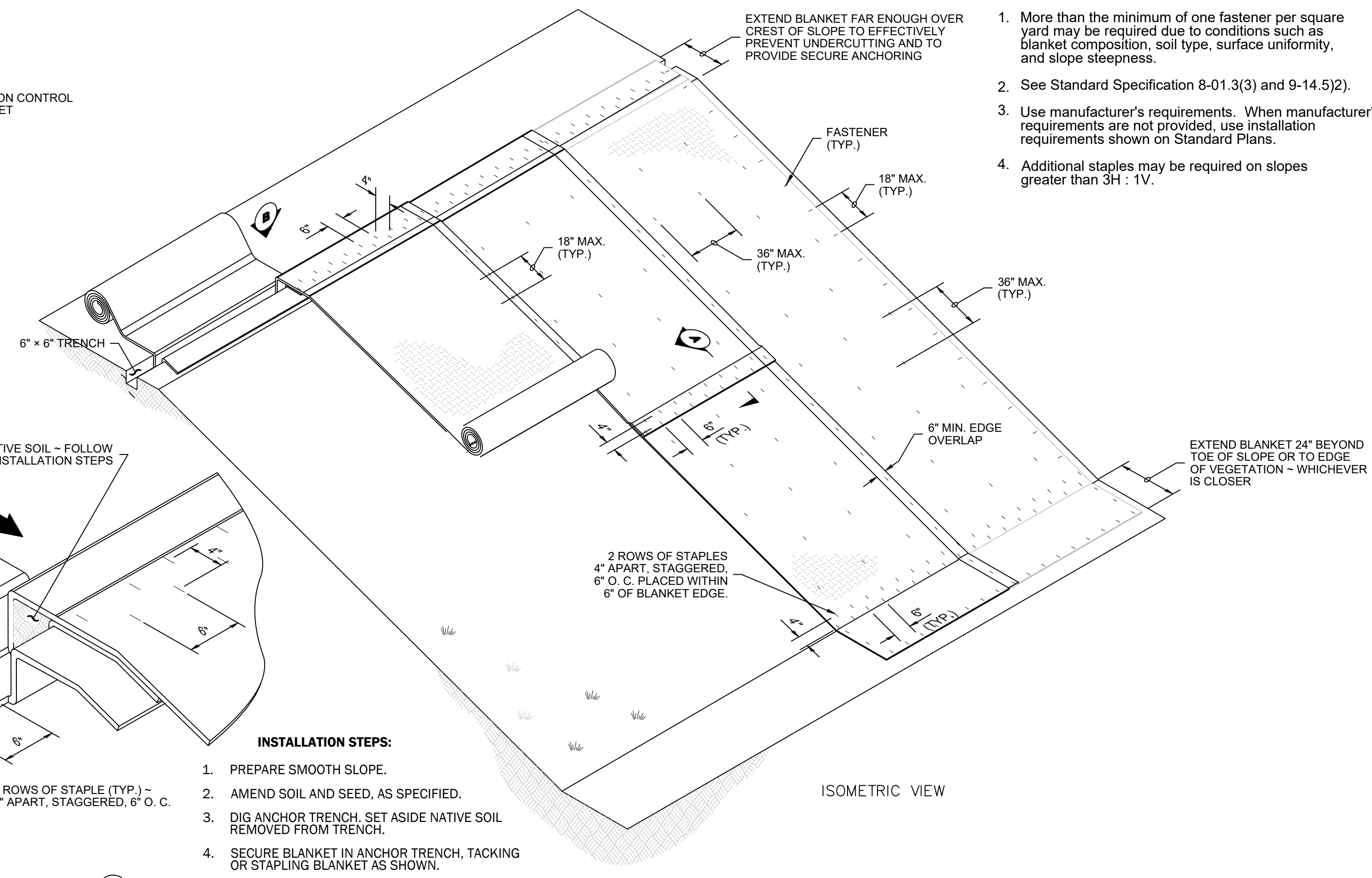
MONITORING WELL PROTECTION 4
NTS C-04



SHINGLE SPLICE ~ SECTION A



INITIAL ANCHOR ~ DETAIL B



- INSTALLATION STEPS:**
1. PREPARE SMOOTH SLOPE.
 2. AMEND SOIL AND SEED, AS SPECIFIED.
 3. DIG ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
 4. SECURE BLANKET IN ANCHOR TRENCH, TACKING OR STAPLING BLANKET AS SHOWN.
 5. REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
 6. ROLL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
 7. STAKE OR STAPLE BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.

- NOTES**
1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and slope steepness.
 2. See Standard Specification 8-01.3(3) and 9-14.5(2).
 3. Use manufacturer's requirements. When manufacturer's requirements are not provided, use installation requirements shown on Standard Plans.
 4. Additional staples may be required on slopes greater than 3H : 1V.

ALL WEATHER FACILITY SIGNAGE

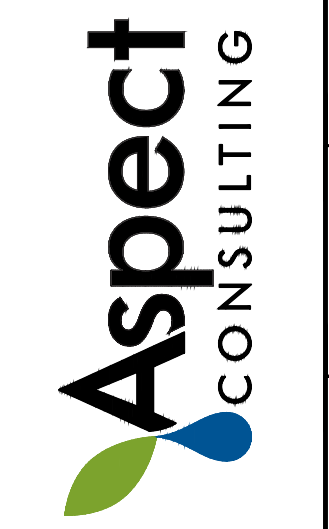
Restricted Area - No Trespassing
City of Shelton Property
Contamination Cleanup In Progress
Contact: Andrew Smith, Dept. of Ecology
Phone: (360) 407-6316

24.0' MIN. SEE NOTE 3

- NOTES:**
1. POST SIGNAGE AT VEHICULAR ACCESS GATES AND ON FENCING SPACED AT MOST 300 FEET APART.
 2. SIGNAGE SHALL BE POSED IN ENGLISH AND SPANISH. CONTRACTOR IS RESPONSIBLE FOR SPANISH LANGUAGE TRANSLATION.
 3. TEXT SHALL BE SIZED APPROPRIATELY SO THAT IT IS LEGIBLE FROM A 10-FOOT DISTANCE.

EXAMPLE PERIMETER FENCE SIGNAGE - ENGLISH TEXT 6
NTS C-04

GEOTEXTILE BLANKET PLACEMENT FOR SLOPES 5
NTS C-04



DETAILS

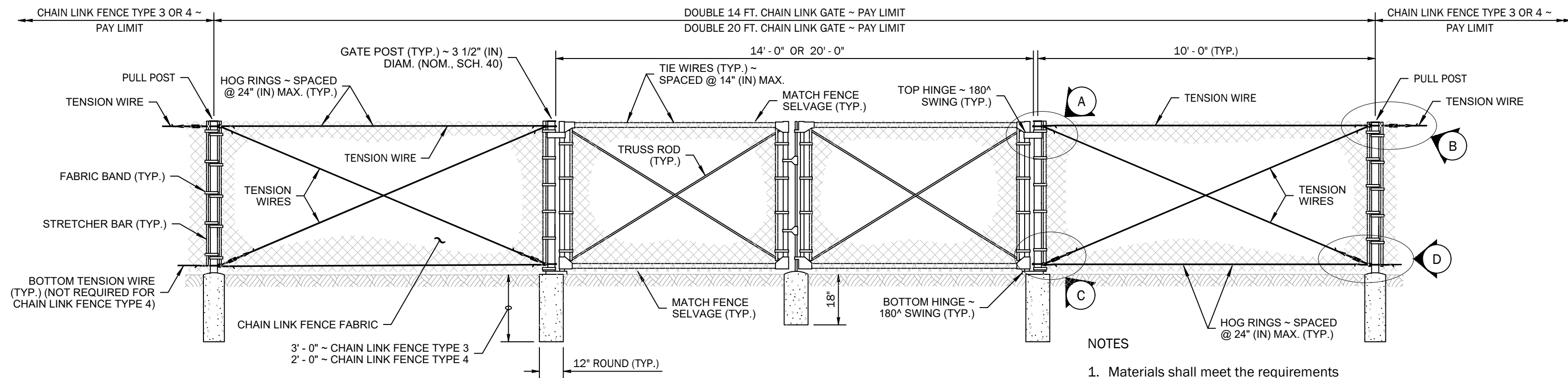
CLEANUP ACTION CONSTRUCTION PLANS
 SHELTON C STREET LANDFILL
 SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:
C-04
 SHEET 5 OF 6

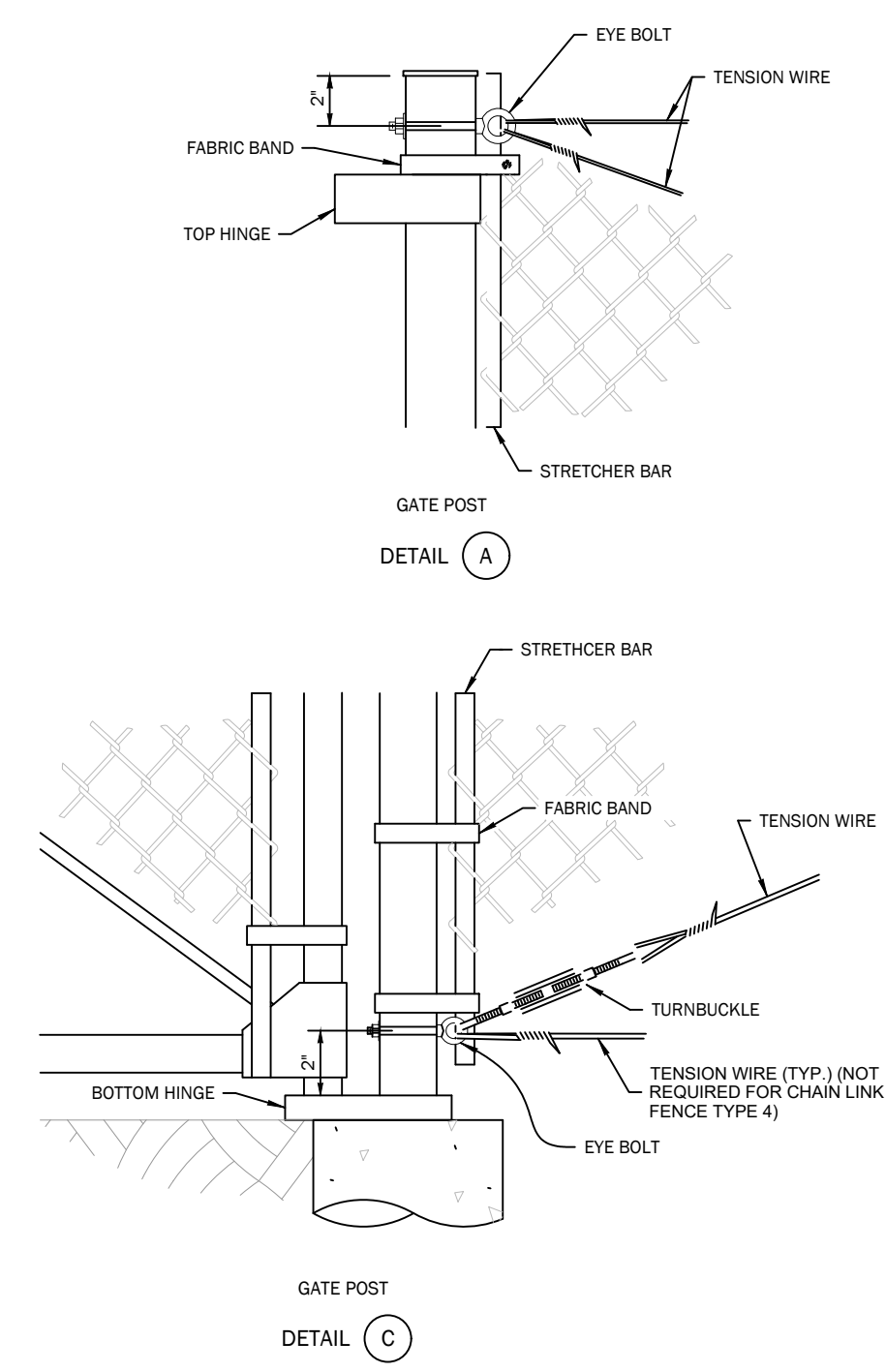


08/17/2023

| NO. | DATE | DESCRIPTION |
|-----|------------|-------------------------|
| 1 | 0 | ISSUED FOR CONSTRUCTION |
| | | RECORD DRAWINGS |
| | 8/17/2023 | ECS |
| | 11/18/2022 | SEA |
| | | APPR. |

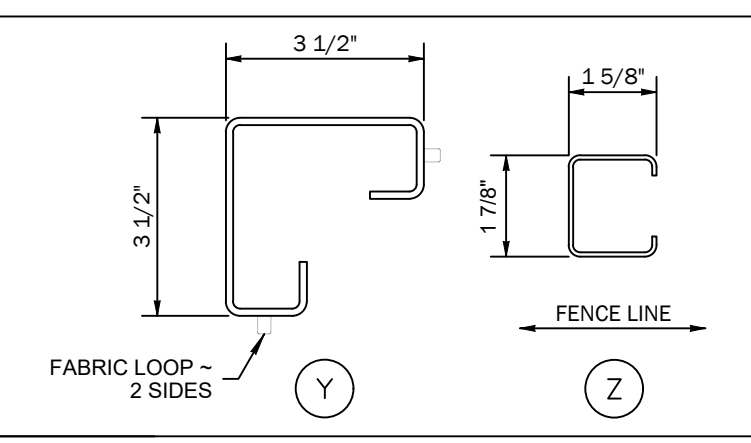


DOUBLE GATE DETAIL 1
NTS C-05

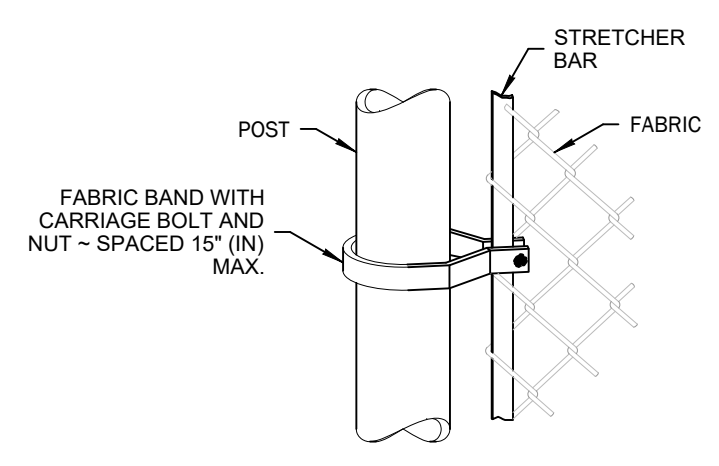


GATE POST CONNECTION DETAILS 2
NTS C-05

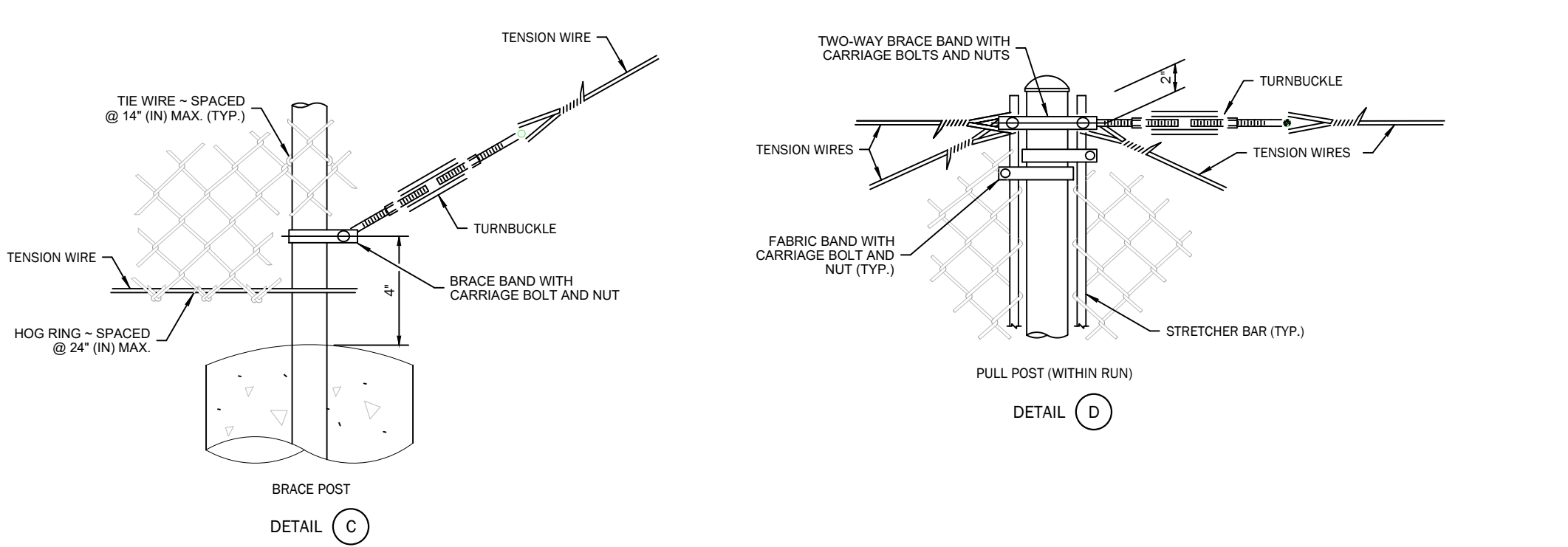
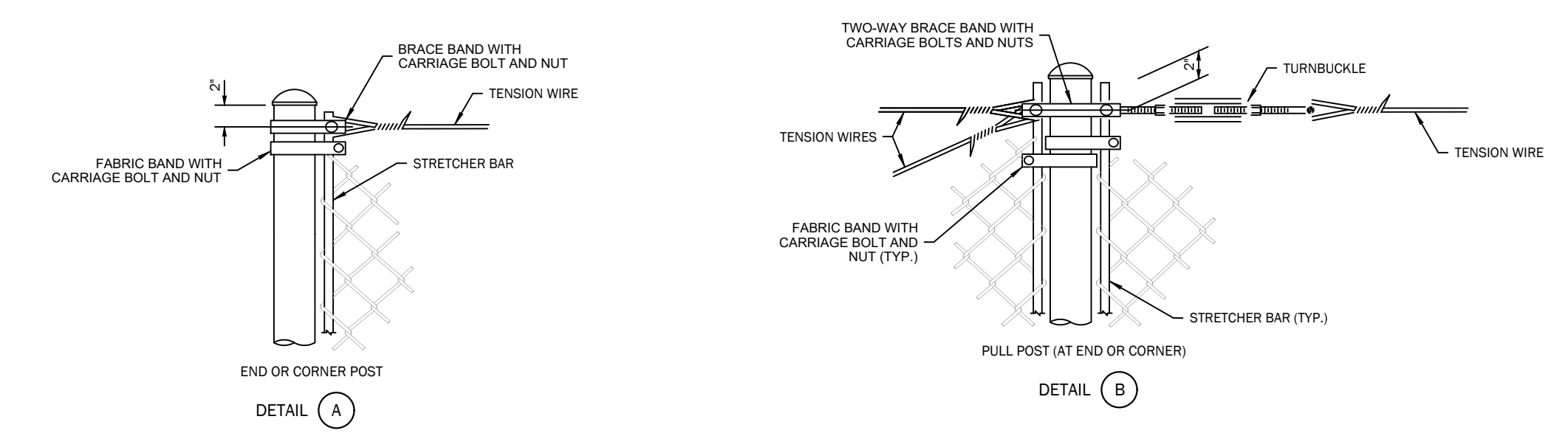
| POST | POST AND RAIL SPECIFICATIONS | | |
|---------------------------|--|------------------------|-------------------|
| | PIPE NOM. SIZE (SCH. 40) I.D. | ROLL FORMED SECTION | WEIGHT (lb/ft) |
| END, CORNER, OR PULL POST | 2 1/2" DIAM. | (Y) | 5.10 |
| LINE OR BRACE POST | 2" DIAM. | (Z) | 1.85 |



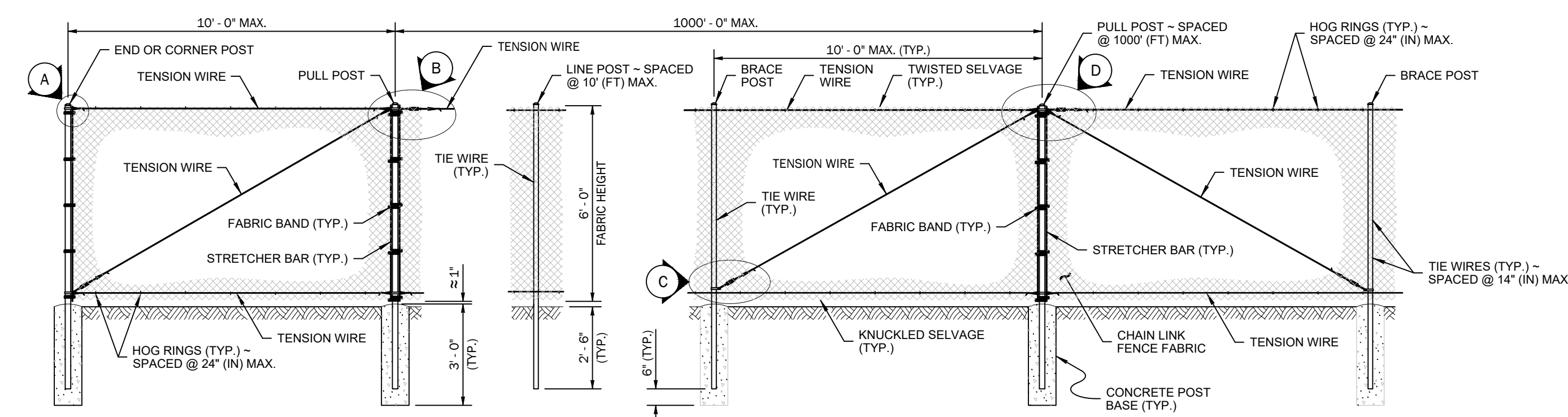
- NOTES**
- All concrete post bases shall be 10" (in) minimum diameter.
 - Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
 - Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
 - Fencing shall be used for security and boundary delineation only.



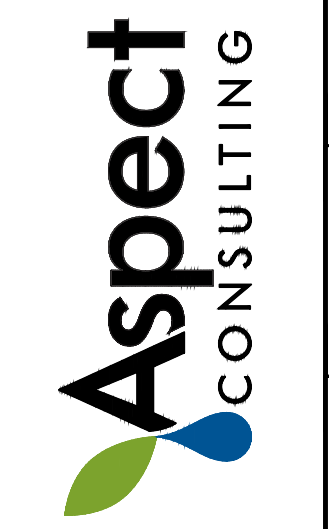
METHOD OF FASTENING STRETCHER BAR TO POST



FENCE TYPE 3 CONNECTION DETAILS 4
NTS C-05



CHAIN LINK FENCE TYPE 3 3
NTS C-05



FENCE AND SIGNAGE DETAILS
CLEANUP ACTION CONSTRUCTION PLANS
SHELTON C STREET LANDFILL
SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:
C-05
SHEET 6 OF 6

DATE: 8/17/2023 REVISION: 1 PROJECT NUMBER: 1500074 DRAWN BY: CMV DESIGNED BY: ECS

APPENDIX C

Geotextile Manufacturer Specifications

2007 Westport Rd
 PO Box 600
 Aberdeen, WA 98520



Phone (360) 268-9231
 Fax (360) 268-1454
 Licensed and Bonded
 BRUMF-CI-114-K4

Date: 12/15/2022

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
 Address: 525 West Cota, Shelton, WA 98584
 Attn: Sam Adlington

Transmittal No. : 08

Project: C Street Landfill Cleanup Construction
 Owner: City of Shelton - Public Works Dept.
 Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
 Location: Shelton, WA

Use One Form Per Item Submitted

| Qty | Spec. Paragraph No. | Spec Page No. | Item Description and Use | Manufacturer | Dwg. No.(s) | Approval Status Engineer |
|-----|---------------------|---------------|--------------------------|--------------|-------------|--------------------------|
| 1 | 2.5 | | WSF 200 Geotextile | AFC West | | |
| | | | | | | |
| | | | | | | |

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- No Exceptions Taken
- Make Corrections Noted
- Revise and Resubmit
- Submit Specified Item
- Rejected
- See Attached Review Comment Sheet Dated _____

By: _____
 CC: _____



ACF West Inc. is a D.B.A. name for Northwest Geosynthetics Inc.

8951 SE 76th Drive, Portland, OR 97206 (503) 771-5115, (800) 878-5115, (503)771-1161 fax

Product Data Sheet

WSF 200 (ACF 200) Woven Geotextile

WSF 200 is a woven slit film geotextile, and will meet the following physical properties when tested in accordance with the methods listed below. The individual slit films are woven together in such a manner as to provide dimensional stability relative to each other. The construction of the geotextile makes WSF 200 ideal for soil separation and stabilization. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

WSF 200 Woven Geotextile conforms to the following physical properties:

| Property | Test Method | English (MARV) ¹ |
|--|-------------|--|
| Weight (Typical) | ASTM D-5261 | 4.0 oz./SY |
| Grab Tensile Strength | ASTM D-4632 | 200 lbs |
| CBR Puncture | ASTM D-6241 | 700 lbs |
| Trapezoidal Tear | ASTM D-4533 | 80 lbs |
| UV Resistance | ASTM D-4355 | 80% |
| Apparent Opening Size (AOS) ² | ASTM D-4751 | 50 US Std. Sieve |
| Permittivity | ASTM D-4491 | 0.05 sec ⁻¹ |
| Roll Sizes | | 12.5' x 432' 15' x 360' 17.5' x 309' |

- 1) All values listed are Minimum Average Roll Value (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.
- 2) Values for Apparent Opening size are Maximum Average Roll Values (MaxARV), typical value plus two standard deviations.

Note: WSF 200 fabric is manufactured and imported for ACF West Inc. by Gia Loi Joint Stock Company. Phuoc Thai Hamlet, Tahi Hoa Tan Uyen District. Binh Duon Province, Vietnam. ACF 200 is a trade name of ACF West Inc. and any use of this name without the expressed written consent of ACF West Inc. is strictly prohibited. The property values listed above are effective 11-1-2010 and subject to change without notice.

2007 Westport Rd
 PO Box 600
 Aberdeen, WA 98520



Phone (360) 268-9231
 Fax (360) 268-1454
 Licensed and Bonded
 BRUMF-CI-114-K4

Date: 12/16/2022

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
 Address: 525 West Cota, Shelton, WA 98584
 Attn: Sam Adlington

Transmittal No. : 09

Project: C Street Landfill Cleanup Construction
 Owner: City of Shelton - Public Works Dept.
 Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
 Location: Shelton, WA

Use One Form Per Item Submitted

| Qty | Spec. Paragraph No. | Spec Page No. | Item Description and Use | Manufacturer | Dwg. No.(s) | Approval Status Engineer |
|-----|---------------------|---------------|--------------------------|--------------|-------------|--------------------------|
| 1 | 2.4 | | WSF 315 Geotextile | AFC West | | |
| | | | | | | |
| | | | | | | |

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- No Exceptions Taken
- Make Corrections Noted
- Revise and Resubmit
- Submit Specified Item
- Rejected
- See Attached Review Comment Sheet Dated _____

By: _____
 CC: _____

Product Data Sheet

WSF 315 Woven Geotextile

WSF 315 is a woven slit film geotextile, and will meet the following physical properties when tested in accordance with the methods listed below. The individual slit films are woven together in such a manner as to provide dimensional stability relative to each other. The construction of the geotextile makes WSF 315 ideal for soil separation and stabilization. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

WSF 315 woven Geotextile conforms to the following physical properties:

| Property | Test Method | English (MARV) ¹ |
|--|------------------------|------------------------------|
| Grab Tensile | ASTM D-4632 (MC/CD) | 315 lbs / 315 lbs |
| Grab Elongation | ASTM D-4632 (MC/CD) | 15% |
| UV Resistance | ASTM D-4355 | >80% |
| Trapezoidal Tear | ASTM D-4533 (MC/CD) | 122 lbs |
| CBR Puncture | ASTM D-6241 | 1100 lbs |
| Apparent Opening Size (AOS) ² | ASTM D-4751 | 40 US Std. Sieve |
| Permittivity | ASTM D-4491 | 0.10 Sec ⁻¹ |
| Roll Sizes | | 12.5' x 360' 17.5' x 258' |

1. All values listed are Minimum Average Roll Value (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.
2. Values for Apparent Opening size are Maximum Average Roll Value (MaxARV), typical value plus two standard deviations.
3. AASHTO M288 Separation Class I Compliant.

Note: WSF 315 fabric is manufactured and imported for ACF West Inc. by Gia Loi Joint Stock Company. Phuoc Thai Hamlet, Tahi Hoa Tan Uyen District. Binh Duon Province, Vietnam. WSF 315 is a trade name of ACF West Inc. and any use of this name without the expressed written consent of ACF West Inc. is strictly prohibited. The property values listed above are effective 02-1-2014 and subject to change without notice.

APPENDIX D

Laboratory Reports for Chemical and Physical Quality of Imported Material

2007 Westport Rd
 PO Box 600
 Aberdeen, WA 98520



Phone (360) 268-9231
 Fax (360) 268-1454
 Licensed and Bonded
 BRUMF-CI-114-K4

Date: 02/16/2023

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
 Address: 525 West Cota, Shelton, WA 98584
 Attn: Eric Schellenger

Transmittal No. : 12

Project: C Street Landfill Cleanup Construction
 Owner: City of Shelton - Public Works Dept.
 Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
 Location: Shelton, WA

Use One Form Per Item Submitted

| Qty | Spec. Paragraph No. | Spec Page No. | Item Description and Use | Manufacturer | Dwg. No.(s) | Approval Status Engineer |
|-----|---------------------|---------------|--|---------------------|-------------|--------------------------|
| 1 | 2.4 | | Soil Cap Construction - Imported Fill Chemical Quality Information | Libby Environmental | | |
| | | | | | | |
| | | | | | | |

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- No Exceptions Taken
- Make Corrections Noted
- Revise and Resubmit
- Submit Specified Item
- Rejected
- See Attached Review Comment Sheet Dated _____

By: _____
 CC: _____



Libby Environmental, Inc.

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

February 15, 2023

Josh Franzke
Brumfield Construction, Inc.
2007 Westport Rd
Aberdeen, WA 98520

Dear Josh Frankze:

Please find enclosed the analytical data report for the Delphi Quarry project located in Delphi, Washington.

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

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

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

Analyses of Gasoline (NWTPH-Gx) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (mg/kg) |
|------------------------------|---------------|------------------------|------------------|
| Method Blank | 2/9/2023 | 74 | nd |
| Soil 1 | 2/9/2023 | 92 | nd |
| Practical Quantitation Limit | | | 10 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 41% TO 142%

ANALYSES PERFORMED BY: Alex Randolph

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel (mg/kg) | Oil (mg/kg) |
|------------------------------|---------------|------------------------|----------------|-------------|
| Method Blank | 2/7/2023 | 87 | nd | nd |
| Laboratory Control Sample | 2/7/2023 | 99 | 99% | n/a |
| Soil 1 | 2/7/2023 | 91 | nd | nd |
| Soil 1 Dup | 2/7/2023 | 90 | nd | nd |
| Practical Quantitation Limit | | | 50 | 250 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Lucy Owens

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT

Brumfield Construction Inc

Delphi, Washington

Libby Project # L23B021

Analyses of Total Metals in Soil by EPA Method 7010 Series

| Sample Number | Date Analyzed | Lead (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Arsenic (mg/kg) |
|------------------------------|---------------|--------------|-----------------|------------------|-----------------|
| Method Blank | 2/9/2023 | nd | nd | nd | nd |
| Soil 1 | 2/9/2023 | nd | nd | 27 | 9.4 |
| Practical Quantitation Limit | | 5.0 | 1.0 | 5.0 | 5.0 |

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Randolph Kraus

QA/QC for Total Metals in Soil by EPA Method 7010 Series

| Sample Number | Date Analyzed | Lead (% Recovery) | Cadmium (% Recovery) | Chromium (% Recovery) | Arsenic (% Recovery) |
|----------------|---------------|-------------------|----------------------|-----------------------|----------------------|
| LCS | 2/9/2023 | 102% | 102% | 115% | 113% |
| L23B019-01 MS | 2/9/2023 | 93% | 114% | 109% | 123% |
| L23B019-01 MSD | 2/9/2023 | 83% | 101% | 94% | 110% |
| RPD | 2/9/2023 | 11% | 12% | 15% | 11% |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Randolph Kraus

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

Analyses of Total Mercury in Soil by EPA Method 7471

| Sample Number | Date Analyzed | Mercury (mg/kg) |
|------------------------------|---------------|-----------------|
| Method Blank | 2/9/2023 | nd |
| Soil 1 | 2/9/2023 | nd |
| Practical Quantitation Limit | | 0.5 |

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Kory Dixon

QA/QC for Total Mercury by EPA Method 7471

| Sample Number | Date Analyzed | Mercury (% Recovery) |
|----------------|---------------|----------------------|
| LCS | 2/9/2023 | 89% |
| L23B019-01 MS | 2/9/2023 | 87% |
| L23B019-01 MSD | 2/9/2023 | 89% |
| RPD | 2/9/2023 | 2% |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Libby Project # L23B021
Date Received 2/6/23 16:25

Received By KD

Sample Receipt Checklist

Chain of Custody

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

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) N/A °C
8. Temperature of sample(s) (0°C to 8°C recommended) 16.8 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

18. Was client notified of all discrepancies? Yes No N/A
- Person Notified: Josh Date: 2/6/2023
- By Whom: JA Via: Email
- Regarding: Analyses

19. Comments. Lab technician filled in COC per project requirements and labeled samples accordingly.
- Clarified analyses with Josh.
- Client Sampled from 5 gal bucket into jars and VOAs upon arrival at the lab.



Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Delphi Quarry
Work Order Number: 2302142

February 15, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 1 sample(s) on 2/8/2023 for the analyses presented in the following report.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: Libby Environmental
Project: Delphi Quarry
Work Order: 2302142

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 2302142-001 | Soil 1 | 02/06/2023 11:00 AM | 02/08/2023 10:22 AM |

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

CLIENT: Libby Environmental
Project: Delphi Quarry

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

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

Qualifiers:

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

Acronyms:

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



Client: Libby Environmental

Collection Date: 2/6/2023 11:00:00 AM

Project: Delphi Quarry

Lab ID: 2302142-001

Matrix: Soil

Client Sample ID: Soil 1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 39416

Analyst: CB

| | | | | | | |
|----------------------------|------|------------|---|-------|---|----------------------|
| Naphthalene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| 2-Methylnaphthalene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| 1-Methylnaphthalene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Acenaphthylene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Acenaphthene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Fluorene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Phenanthrene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Anthracene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Fluoranthene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Pyrene | ND | 38.1 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Benz(a)anthracene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Chrysene | ND | 19.0 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Benzo(b)fluoranthene | ND | 23.8 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Benzo(k)fluoranthene | ND | 23.8 | * | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Benzo(a)pyrene | ND | 28.6 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Indeno(1,2,3-cd)pyrene | ND | 38.1 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Dibenz(a,h)anthracene | ND | 47.6 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Benzo(g,h,i)perylene | ND | 47.6 | | µg/Kg | 1 | 2/14/2023 5:28:39 PM |
| Surr: 2-Fluorobiphenyl | 65.4 | 34.4 - 132 | | %Rec | 1 | 2/14/2023 5:28:39 PM |
| Surr: Terphenyl-d14 (surr) | 61.0 | 32.8 - 147 | | %Rec | 1 | 2/14/2023 5:28:39 PM |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Work Order: 2302142
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: MB-39416 | SampType: MBLK | Units: µg/Kg | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | | | |
|----------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 39416 | | Analysis Date: 2/14/2023 | SeqNo: 1697481 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | ND | 20.0 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 20.0 | | | | | | | | | |
| 1-Methylnaphthalene | ND | 20.0 | | | | | | | | | |
| Acenaphthene | ND | 20.0 | | | | | | | | | |
| Acenaphthylene | ND | 20.0 | | | | | | | | | |
| Phenanthrene | ND | 20.0 | | | | | | | | | |
| Fluorene | ND | 20.0 | | | | | | | | | |
| Anthracene | ND | 20.0 | | | | | | | | | |
| Fluoranthene | ND | 20.0 | | | | | | | | | |
| Pyrene | ND | 40.0 | | | | | | | | | |
| Benz(a)anthracene | ND | 20.0 | | | | | | | | | |
| Chrysene | ND | 20.0 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 25.0 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 25.0 | | | | | | | | | * |
| Benzo(a)pyrene | ND | 30.0 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 50.0 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 50.0 | | | | | | | | | |
| Surr: 2,4,6-Tribromophenol | 1,420 | | 2,000 | | 70.9 | 54.6 | 144 | | | | |
| Surr: 2-Fluorobiphenyl | 828 | | 1,000 | | 82.8 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 789 | | 1,000 | | 78.9 | 32.8 | 147 | | | | |

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

| Sample ID: LCS-39416 | SampType: LCS | Units: µg/Kg | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | | | |
|-----------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 39416 | | Analysis Date: 2/14/2023 | SeqNo: 1697482 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,390 | 20.0 | 2,000 | 0 | 69.4 | 64.3 | 115 | | | | |
| 2-Methylnaphthalene | 1,350 | 20.0 | 2,000 | 0 | 67.3 | 58.9 | 122 | | | | |
| 1-Methylnaphthalene | 1,380 | 20.0 | 2,000 | 0 | 68.9 | 57.4 | 122 | | | | |
| Acenaphthene | 1,360 | 20.0 | 2,000 | 0 | 68.0 | 61.1 | 119 | | | | |

Work Order: 2302142
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: LCS-39416 | SampType: LCS | Units: µg/Kg | | | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | |
|-----------------------------|------------------------|---------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 39416 | | | | Analysis Date: 2/14/2023 | SeqNo: 1697482 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Acenaphthylene | 1,390 | 20.0 | 2,000 | 0 | 69.4 | 52.9 | 120 | | | | |
| Phenanthrene | 1,290 | 20.0 | 2,000 | 0 | 64.7 | 60 | 118 | | | | |
| Fluorene | 1,360 | 20.0 | 2,000 | 0 | 68.0 | 63.6 | 120 | | | | |
| Anthracene | 1,410 | 20.0 | 2,000 | 0 | 70.4 | 59.5 | 119 | | | | |
| Fluoranthene | 1,290 | 20.0 | 2,000 | 0 | 64.7 | 62.3 | 120 | | | | |
| Pyrene | 1,310 | 40.0 | 2,000 | 0 | 65.6 | 61.1 | 120 | | | | |
| Benz(a)anthracene | 1,370 | 20.0 | 2,000 | 0 | 68.4 | 61.5 | 123 | | | | |
| Chrysene | 1,250 | 20.0 | 2,000 | 0 | 62.4 | 58.6 | 120 | | | | |
| Benzo(b)fluoranthene | 1,260 | 25.0 | 2,000 | 0 | 63.2 | 62.1 | 124 | | | | |
| Benzo(k)fluoranthene | 1,200 | 25.0 | 2,000 | 0 | 59.8 | 60.3 | 116 | | | | S |
| Benzo(a)pyrene | 1,320 | 30.0 | 2,000 | 0 | 66.1 | 51.6 | 115 | | | | |
| Indeno(1,2,3-cd)pyrene | 1,350 | 40.0 | 2,000 | 0 | 67.6 | 53.8 | 127 | | | | |
| Dibenz(a,h)anthracene | 1,340 | 50.0 | 2,000 | 0 | 67.2 | 53.3 | 127 | | | | |
| Benzo(g,h,i)perylene | 1,320 | 50.0 | 2,000 | 0 | 65.8 | 48.6 | 122 | | | | |
| Surr: 2,4,6-Tribromophenol | 1,670 | | 2,000 | | 83.4 | 54.6 | 144 | | | | |
| Surr: 2-Fluorobiphenyl | 830 | | 1,000 | | 83.0 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 837 | | 1,000 | | 83.7 | 32.8 | 147 | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

| Sample ID: 2302203-008AMS | SampType: MS | Units: µg/Kg-dry | | | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | |
|----------------------------------|------------------------|-------------------------|-----------|-------------|---------------------------------|-----------------------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39416 | | | | Analysis Date: 2/15/2023 | SeqNo: 1697498 | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,390 | 24.2 | 2,419 | 0 | 57.3 | 55.7 | 105 | | | | |
| 2-Methylnaphthalene | 1,380 | 24.2 | 2,419 | 0 | 57.1 | 56.6 | 103 | | | | |
| 1-Methylnaphthalene | 1,390 | 24.2 | 2,419 | 0 | 57.6 | 56.1 | 101 | | | | |
| Acenaphthene | 1,380 | 24.2 | 2,419 | 0 | 57.0 | 55.9 | 107 | | | | |
| Acenaphthylene | 1,380 | 24.2 | 2,419 | 0 | 56.9 | 53.8 | 100 | | | | |
| Phenanthrene | 1,310 | 24.2 | 2,419 | 0 | 54.2 | 49.1 | 109 | | | | |
| Fluorene | 1,370 | 24.2 | 2,419 | 0 | 56.7 | 55.7 | 107 | | | | |
| Anthracene | 1,300 | 24.2 | 2,419 | 0 | 53.7 | 52.4 | 107 | | | | |

Work Order: 2302142
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: 2302203-008AMS | SampType: MS | Units: µg/Kg-dry | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | | | |
|----------------------------------|------------------------|-------------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39416 | | Analysis Date: 2/15/2023 | SeqNo: 1697498 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Fluoranthene | 1,320 | 24.2 | 2,419 | 0 | 54.6 | 53.1 | 110 | | | | |
| Pyrene | 1,340 | 48.4 | 2,419 | 0 | 55.6 | 52.5 | 109 | | | | |
| Benz(a)anthracene | 1,380 | 24.2 | 2,419 | 0 | 57.1 | 53.4 | 112 | | | | |
| Chrysene | 1,290 | 24.2 | 2,419 | 0 | 53.5 | 52 | 105 | | | | |
| Benzo(b)fluoranthene | 1,310 | 30.2 | 2,419 | 0 | 54.0 | 51.3 | 119 | | | | |
| Benzo(k)fluoranthene | 1,250 | 30.2 | 2,419 | 0 | 51.7 | 50.3 | 108 | | | | |
| Benzo(a)pyrene | 1,400 | 36.3 | 2,419 | 0 | 57.7 | 48.5 | 106 | | | | |
| Indeno(1,2,3-cd)pyrene | 1,400 | 48.4 | 2,419 | 0 | 58.0 | 42.1 | 113 | | | | |
| Dibenz(a,h)anthracene | 1,420 | 60.5 | 2,419 | 0 | 58.9 | 40.4 | 114 | | | | |
| Benzo(g,h,i)perylene | 1,350 | 60.5 | 2,419 | 0 | 55.9 | 34.7 | 105 | | | | |
| Surr: 2,4,6-Tribromophenol | 1,720 | | 2,419 | | 71.2 | 54.6 | 144 | | | | |
| Surr: 2-Fluorobiphenyl | 833 | | 1,209 | | 68.8 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 785 | | 1,209 | | 64.9 | 32.8 | 147 | | | | |

| Sample ID: 2302203-008AMS | SampType: MSD | Units: µg/Kg-dry | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | | | |
|----------------------------------|------------------------|-------------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|-------|----------|------|
| Client ID: BATCH | Batch ID: 39416 | | Analysis Date: 2/15/2023 | SeqNo: 1697499 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,420 | 23.9 | 2,385 | 0 | 59.4 | 55.7 | 105 | 1,386 | 2.18 | 30 | |
| 2-Methylnaphthalene | 1,390 | 23.9 | 2,385 | 0 | 58.3 | 56.6 | 103 | 1,381 | 0.635 | 30 | |
| 1-Methylnaphthalene | 1,420 | 23.9 | 2,385 | 0 | 59.4 | 56.1 | 101 | 1,394 | 1.62 | 30 | |
| Acenaphthene | 1,390 | 23.9 | 2,385 | 0 | 58.3 | 55.9 | 107 | 1,378 | 0.898 | 30 | |
| Acenaphthylene | 1,390 | 23.9 | 2,385 | 0 | 58.3 | 53.8 | 100 | 1,376 | 1.07 | 30 | |
| Phenanthrene | 1,300 | 23.9 | 2,385 | 0 | 54.7 | 49.1 | 109 | 1,311 | 0.492 | 30 | |
| Fluorene | 1,380 | 23.9 | 2,385 | 0 | 57.9 | 55.7 | 107 | 1,371 | 0.664 | 30 | |
| Anthracene | 1,310 | 23.9 | 2,385 | 0 | 54.9 | 52.4 | 107 | 1,299 | 0.843 | 30 | |
| Fluoranthene | 1,340 | 23.9 | 2,385 | 0 | 56.0 | 53.1 | 110 | 1,322 | 1.10 | 30 | |
| Pyrene | 1,350 | 47.7 | 2,385 | 0 | 56.6 | 52.5 | 109 | 1,344 | 0.355 | 30 | |
| Benz(a)anthracene | 1,390 | 23.9 | 2,385 | 0 | 58.1 | 53.4 | 112 | 1,381 | 0.435 | 30 | |
| Chrysene | 1,320 | 23.9 | 2,385 | 0 | 55.3 | 52 | 105 | 1,294 | 1.84 | 30 | |
| Benzo(b)fluoranthene | 1,320 | 29.8 | 2,385 | 0 | 55.3 | 51.3 | 119 | 1,306 | 1.03 | 30 | |

Work Order: 2302142
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: 2302203-008AMSD | SampType: MSD | Units: µg/Kg-dry | Prep Date: 2/13/2023 | RunNo: 81865 | | | | | | | |
|-----------------------------------|------------------------|---------------------------------|-----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39416 | Analysis Date: 2/15/2023 | SeqNo: 1697499 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|------|-------|---|------|------|-----|-------|-------|----|--|
| Benzo(k)fluoranthene | 1,270 | 29.8 | 2,385 | 0 | 53.3 | 50.3 | 108 | 1,252 | 1.54 | 30 | |
| Benzo(a)pyrene | 1,410 | 35.8 | 2,385 | 0 | 59.0 | 48.5 | 106 | 1,395 | 0.910 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1,420 | 47.7 | 2,385 | 0 | 59.4 | 42.1 | 113 | 1,402 | 1.07 | 30 | |
| Dibenz(a,h)anthracene | 1,430 | 59.6 | 2,385 | 0 | 59.8 | 40.4 | 114 | 1,424 | 0.224 | 30 | |
| Benzo(g,h,i)perylene | 1,360 | 59.6 | 2,385 | 0 | 57.1 | 34.7 | 105 | 1,352 | 0.806 | 30 | |
| Surr: 2,4,6-Tribromophenol | 1,700 | | 2,385 | | 71.2 | 54.6 | 144 | | 0 | | |
| Surr: 2-Fluorobiphenyl | 834 | | 1,193 | | 69.9 | 34.4 | 132 | | 0 | | |
| Surr: Terphenyl-d14 (surr) | 776 | | 1,193 | | 65.1 | 32.8 | 147 | | 0 | | |

| | |
|-------------------------|-------------------------------------|
| Client Name: LIBBY | Work Order Number: 2302142 |
| Logged by: Clare Griggs | Date Received: 2/8/2023 10:22:00 AM |

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

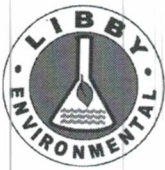
| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/>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

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 4.6 |

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



Libby Environmental, Inc.

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

**SUBCONTRACT
ORDER
L23B021**

2302142

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) STD

Project: Delphi Quarry

| Analysis | Comments |
|----------|----------|
|----------|----------|

Client Sample ID: Soil 1 *Soil Sampled: 02/06/2023 11:00*

Lab ID: L23B021-01

8270 PAH

+ Naphths *SIM*

Containers Supplied:

[Signature]
 Released By _____
[Signature]
 Date 2.7.23
 Date 2.7.23

[Signature] 02/18/23
 Received By _____
 Date 10:22
 Date _____

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 03/09/2023

Submittal – Transmittal

To: Aspect Consulting
Address: 50414th Ave SE Suite 200, Olympia, WA 985
Attn: Eric Sschellenger

Transmittal No. : 13

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton
Previous Transmittal No. (If Resubmitted) _____

Project No. : 22-244-80
Location: Shelton, WA

Use One Form Per Item Submitted

| Qty | Spec. Paragraph No. | Spec Page No. | Item Description and Use | Manufacturer | Dwg. No.(s) | Approval Status Engineer |
|-----|---------------------|---------------|----------------------------|-----------------|-------------|--------------------------|
| 1 | 2.4 | | Soil Cap Construction - Im | Libby Environme | | |
| | | | | | | |
| | | | | | | |

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature Josh Franzke

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- No Exceptions Taken
- Make Corrections Noted
- Revise and Resubmit
- Submit Specified Item
- Rejected
- See Attached Review Comment Sheet Dated _____

By: _____
CC: _____



Libby Environmental, Inc.

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

March 8, 2023

Josh Franzke
Brumfield Construction
2007 Westport Road
Aberdeen, WA 98520

Dear Josh Franzke:

Please find enclosed the analytical data report for the Delphi Quarry project located in Olympia, Washington.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Sherry L. Chilcutt".

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 2-28-23

Page: _____ of _____

Client: BRUMFIELD CONSTRUCTION

Project Manager: JOSH FRANZKE

Address: 2007 WEST PORT ROAD

Project Name: DELPHI QUARRY

City: ABERDEEN State: WA Zip: 98520

Location: DELPHI RD SW City, State: OLYMPIA, WA

Phone: 360-915-2438 Fax: _____

Collector: GAGE HARSHMAN Date of Collection: 2-28-23

Client Project # _____

Email: JOSH@BRUMFIELDINC.COM

| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | | Field Notes | | | | | | | | | |
|---------------|-------|------|-------------|----------------|----------|----------------------|----------|----------------------|------------|---------------|----------|---------------|---------------|------------|-----------------------|-------------|---------------|--|--|--|--|--|--|--|--|
| | | | | | VOC 8260 | PCE & Daughter Prod. | NWTPH-Gx | BTEX (8260) / (8021) | NWTPH-HCID | NWTPH-Dx / Dx | PCB 8082 | MTCA 5 Metals | RCRA 8 Metals | c PAH 8270 | PAH 8270 + 16-phenols | | Semi Vol 8270 | | | | | | | | |
| 1 #2 | → | 1200 | Soil | VOA | | X | | | X | | X | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-------------------------------------|----------------------------------|---------------------------------|----------------------------------|--|---|
| Relinquished by: <u>[Signature]</u> | Date / Time: <u>2-28-23/4:46</u> | Received by: <u>[Signature]</u> | Date / Time: <u>2-28-23/1:50</u> | Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers _____ | Remarks: Analytes grabbed from previous project, L23B021 |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | | |

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction
Olympia, Washington
Libby Project # L23C001

Analyses of Gasoline (NWTPH-Gx) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (mg/kg) |
|------------------------------|---------------|------------------------|------------------|
| Method Blank | 3/1/2023 | 98 | nd |
| #2 | 3/1/2023 | 96 | nd |
| Practical Quantitation Limit | | | 10 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 41% TO 142%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction
Olympia, Washington
Libby Project # L23C001

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel (mg/kg) | Oil (mg/kg) |
|------------------------------|---------------|------------------------|----------------|-------------|
| Method Blank | 3/3/2023 | 102 | nd | nd |
| LCS | 3/3/2023 | 114 | 125% | n/a |
| #2 | 3/3/2023 | 99 | nd | nd |
| Practical Quantitation Limit | | | 50 | 250 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kristin Hintz

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT
Brumfield Construction
Olympia, Washington
Libby Project # L23C001

Analyses of Total Mercury in Soil by EPA Method 7471

| Sample Number | Date Analyzed | Mercury (mg/kg) |
|------------------------------|---------------|-----------------|
| Method Blank | 3/2/2023 | nd |
| #2 | 3/2/2023 | nd |
| Practical Quantitation Limit | | 0.5 |

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Kory Dixon

QA/QC for Total Mercury by EPA Method 7471

| Sample Number | Date Analyzed | Mercury (% Recovery) |
|----------------|---------------|----------------------|
| LCS | 3/2/2023 | 81% |
| L23B124-01 MS | 3/2/2023 | 82% |
| L23B124-01 MSD | 3/2/2023 | 85% |
| RPD | 3/2/2023 | 4% |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT

Brumfield Construction

Libby Project # L23C001

Date Received 2/28/23 16:50

Received By KD

Sample Receipt Checklist

Chain of Custody

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

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) n/a °C
8. Temperature of sample(s) (0°C to 8°C recommended) 13.1 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

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

Person Notified: Brumfield Construction Employee

Date: 2/28/2023

By Whom: Kory Dixon

Via: In person

Regarding: No analyses indicated on COC

19. Comments. Client requested same analyses to be performed as previously received project.



Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Delphi Quarry
Work Order Number: 2303024

March 07, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 1 sample(s) on 3/2/2023 for the analyses presented in the following report.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample Moisture (Percent Moisture)

Total Metals by EPA Method 6020B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: Libby Environmental
Project: Delphi Quarry
Work Order: 2303024

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 2303024-001 | #2 | 02/28/2023 12:00 PM | 03/02/2023 9:44 AM |

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

CLIENT: Libby Environmental
Project: Delphi Quarry

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

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

Qualifiers:

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

Acronyms:

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



Analytical Report

Work Order: 2303024
Date Reported: 3/7/2023

Client: Libby Environmental

Collection Date: 2/28/2023 12:00:00 PM

Project: Delphi Quarry

Lab ID: 2303024-001

Matrix: Soil

Client Sample ID: #2

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 39601 Analyst: CB

| | | | | | | |
|----------------------------|------|------------|--|-----------|---|---------------------|
| Naphthalene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| 2-Methylnaphthalene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| 1-Methylnaphthalene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Acenaphthylene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Acenaphthene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Fluorene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Phenanthrene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Anthracene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Fluoranthene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Pyrene | ND | 48.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Benz(a)anthracene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Chrysene | ND | 24.0 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Benzo(b)fluoranthene | ND | 30.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Benzo(k)fluoranthene | ND | 30.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Benzo(a)pyrene | ND | 36.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Indeno(1,2,3-cd)pyrene | ND | 48.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Dibenz(a,h)anthracene | ND | 60.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Benzo(g,h,i)perylene | ND | 60.1 | | µg/Kg-dry | 1 | 3/4/2023 1:45:42 AM |
| Surr: 2-Fluorobiphenyl | 74.7 | 34.4 - 132 | | %Rec | 1 | 3/4/2023 1:45:42 AM |
| Surr: Terphenyl-d14 (surr) | 73.9 | 32.8 - 147 | | %Rec | 1 | 3/4/2023 1:45:42 AM |

Total Metals by EPA Method 6020B

Batch ID: 39599 Analyst: SLL

| | | | | | | |
|----------|--------|--------|--|-----------|---|---------------------|
| Arsenic | 1.15 | 0.239 | | mg/Kg-dry | 1 | 3/3/2023 2:48:00 PM |
| Cadmium | 0.0507 | 0.0191 | | mg/Kg-dry | 1 | 3/3/2023 2:48:00 PM |
| Chromium | 25.9 | 0.239 | | mg/Kg-dry | 1 | 3/3/2023 2:48:00 PM |
| Lead | 1.54 | 0.957 | | mg/Kg-dry | 1 | 3/3/2023 2:48:00 PM |

Sample Moisture (Percent Moisture)

Batch ID: R82183 Analyst: AS

| | | | | | | |
|------------------|------|--|--|-----|---|---------------------|
| Percent Moisture | 20.9 | | | wt% | 1 | 3/3/2023 8:23:50 AM |
|------------------|------|--|--|-----|---|---------------------|

Work Order: 2303024
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

| Sample ID: MB-39599 | SampType: MBLK | Units: mg/Kg | Prep Date: 3/3/2023 | RunNo: 82198 | | | | | | | |
|----------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 39599 | | Analysis Date: 3/3/2023 | SeqNo: 1707107 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------|----|--------|--|--|--|--|--|--|--|--|--|
| Arsenic | ND | 0.250 | | | | | | | | | |
| Cadmium | ND | 0.0200 | | | | | | | | | |
| Chromium | ND | 0.250 | | | | | | | | | |
| Lead | ND | 1.00 | | | | | | | | | |

| Sample ID: LCS-39599 | SampType: LCS | Units: mg/Kg | Prep Date: 3/3/2023 | RunNo: 82198 | | | | | | | |
|-----------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 39599 | | Analysis Date: 3/3/2023 | SeqNo: 1707108 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------|------|--------|-------|---|------|----|-----|--|--|--|--|
| Arsenic | 39.3 | 0.200 | 40.00 | 0 | 98.4 | 80 | 120 | | | | |
| Cadmium | 1.92 | 0.0160 | 2.000 | 0 | 95.9 | 80 | 120 | | | | |
| Chromium | 40.3 | 0.200 | 40.00 | 0 | 101 | 80 | 120 | | | | |
| Lead | 19.5 | 0.800 | 20.00 | 0 | 97.7 | 80 | 120 | | | | |

| Sample ID: 2303024-001AMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82198 | | | | | | | |
|----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: #2 | Batch ID: 39599 | | Analysis Date: 3/3/2023 | SeqNo: 1707111 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------|------|--------|-------|---------|------|----|-----|--|--|--|---|
| Arsenic | 30.2 | 0.239 | 47.86 | 1.147 | 60.8 | 75 | 125 | | | | S |
| Cadmium | 1.91 | 0.0191 | 2.393 | 0.05073 | 77.8 | 75 | 125 | | | | |
| Chromium | 49.3 | 0.239 | 47.86 | 25.90 | 48.8 | 75 | 125 | | | | S |
| Lead | 20.5 | 0.957 | 23.93 | 1.541 | 79.1 | 75 | 125 | | | | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

| Sample ID: 2303024-001AMSD | SampType: MSD | Units: mg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82198 | | | | | | | |
|-----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: #2 | Batch ID: 39599 | | Analysis Date: 3/3/2023 | SeqNo: 1707112 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------|------|--------|-------|---------|------|----|-----|-------|-------|----|---|
| Arsenic | 29.9 | 0.238 | 47.50 | 1.147 | 60.6 | 75 | 125 | 30.24 | 1.02 | 20 | S |
| Cadmium | 1.92 | 0.0190 | 2.375 | 0.05073 | 78.7 | 75 | 125 | 1.913 | 0.315 | 20 | |

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT
Total Metals by EPA Method 6020B

| Sample ID: 2303024-001AMSD | SampType: MSD | Units: mg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82198 | | | | | | | |
|-----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: #2 | Batch ID: 39599 | | Analysis Date: 3/3/2023 | SeqNo: 1707112 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------|------|-------|-------|-------|------|----|-----|-------|------|----|---|
| Chromium | 48.6 | 0.238 | 47.50 | 25.90 | 47.8 | 75 | 125 | 49.27 | 1.35 | 20 | S |
| Lead | 22.3 | 0.950 | 23.75 | 1.541 | 87.5 | 75 | 125 | 20.47 | 8.65 | 20 | |

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2303024
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: MB-39601 | SampType: MBLK | Units: µg/Kg | Prep Date: 3/3/2023 | RunNo: 82230 | | | | | | | |
|----------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 39601 | | Analysis Date: 3/3/2023 | SeqNo: 1707855 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | ND | 20.0 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 20.0 | | | | | | | | | |
| 1-Methylnaphthalene | ND | 20.0 | | | | | | | | | |
| Acenaphthene | ND | 20.0 | | | | | | | | | |
| Acenaphthylene | ND | 20.0 | | | | | | | | | |
| Phenanthrene | ND | 20.0 | | | | | | | | | |
| Fluorene | ND | 20.0 | | | | | | | | | |
| Anthracene | ND | 20.0 | | | | | | | | | |
| Fluoranthene | ND | 20.0 | | | | | | | | | |
| Pyrene | ND | 40.0 | | | | | | | | | |
| Benz(a)anthracene | ND | 20.0 | | | | | | | | | |
| Chrysene | ND | 20.0 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 25.0 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 25.0 | | | | | | | | | |
| Benzo(a)pyrene | ND | 30.0 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 40.0 | | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 50.0 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 50.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 798 | | 1,000 | | 79.8 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 810 | | 1,000 | | 81.0 | 32.8 | 147 | | | | |

| Sample ID: LCS-39601 | SampType: LCS | Units: µg/Kg | Prep Date: 3/3/2023 | RunNo: 82230 | | | | | | | |
|-----------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 39601 | | Analysis Date: 3/3/2023 | SeqNo: 1707856 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,860 | 20.0 | 2,000 | 0 | 92.8 | 64.3 | 115 | | | | |
| 2-Methylnaphthalene | 1,840 | 20.0 | 2,000 | 0 | 92.1 | 58.9 | 122 | | | | |
| 1-Methylnaphthalene | 1,840 | 20.0 | 2,000 | 0 | 91.9 | 57.4 | 122 | | | | |
| Acenaphthene | 1,830 | 20.0 | 2,000 | 0 | 91.7 | 61.1 | 119 | | | | |
| Acenaphthylene | 1,820 | 20.0 | 2,000 | 0 | 91.1 | 52.9 | 120 | | | | |
| Phenanthrene | 1,840 | 20.0 | 2,000 | 0 | 92.1 | 60 | 118 | | | | |

Work Order: 2303024
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: LCS-39601 | SampType: LCS | Units: µg/Kg | | | | Prep Date: 3/3/2023 | RunNo: 82230 | | | | |
|-----------------------------|------------------------|---------------------|-----------|-------------|------|--------------------------------|-----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 39601 | | | | | Analysis Date: 3/3/2023 | SeqNo: 1707856 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Fluorene | 1,870 | 20.0 | 2,000 | 0 | 93.6 | 63.6 | 120 | | | | |
| Anthracene | 1,810 | 20.0 | 2,000 | 0 | 90.5 | 59.5 | 119 | | | | |
| Fluoranthene | 1,860 | 20.0 | 2,000 | 0 | 92.8 | 62.3 | 120 | | | | |
| Pyrene | 1,870 | 40.0 | 2,000 | 0 | 93.5 | 61.1 | 120 | | | | |
| Benz(a)anthracene | 1,930 | 20.0 | 2,000 | 0 | 96.4 | 61.5 | 123 | | | | |
| Chrysene | 1,790 | 20.0 | 2,000 | 0 | 89.3 | 58.6 | 120 | | | | |
| Benzo(b)fluoranthene | 1,860 | 25.0 | 2,000 | 0 | 93.2 | 62.1 | 124 | | | | |
| Benzo(k)fluoranthene | 1,820 | 25.0 | 2,000 | 0 | 90.8 | 60.3 | 116 | | | | |
| Benzo(a)pyrene | 1,870 | 30.0 | 2,000 | 0 | 93.5 | 51.6 | 115 | | | | |
| Indeno(1,2,3-cd)pyrene | 1,920 | 40.0 | 2,000 | 0 | 95.8 | 53.8 | 127 | | | | |
| Dibenz(a,h)anthracene | 1,830 | 50.0 | 2,000 | 0 | 91.6 | 53.3 | 127 | | | | |
| Benzo(g,h,i)perylene | 1,880 | 50.0 | 2,000 | 0 | 94.2 | 48.6 | 122 | | | | |
| Surr: 2-Fluorobiphenyl | 770 | | 1,000 | | 77.0 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 809 | | 1,000 | | 80.9 | 32.8 | 147 | | | | |

| Sample ID: 2303025-001AMS | SampType: MS | Units: µg/Kg-dry | | | | Prep Date: 3/3/2023 | RunNo: 82230 | | | | |
|----------------------------------|------------------------|-------------------------|-----------|-------------|------|--------------------------------|-----------------------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39601 | | | | | Analysis Date: 3/3/2023 | SeqNo: 1707858 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,760 | 21.6 | 2,163 | 0 | 81.5 | 55.7 | 105 | | | | |
| 2-Methylnaphthalene | 1,730 | 21.6 | 2,163 | 0 | 79.7 | 56.6 | 103 | | | | |
| 1-Methylnaphthalene | 1,720 | 21.6 | 2,163 | 0 | 79.4 | 56.1 | 101 | | | | |
| Acenaphthene | 1,680 | 21.6 | 2,163 | 0 | 77.9 | 55.9 | 107 | | | | |
| Acenaphthylene | 1,700 | 21.6 | 2,163 | 0 | 78.4 | 53.8 | 100 | | | | |
| Phenanthrene | 1,720 | 21.6 | 2,163 | 0 | 79.6 | 49.1 | 109 | | | | |
| Fluorene | 1,740 | 21.6 | 2,163 | 0 | 80.5 | 55.7 | 107 | | | | |
| Anthracene | 1,680 | 21.6 | 2,163 | 0 | 77.5 | 52.4 | 107 | | | | |
| Fluoranthene | 1,720 | 21.6 | 2,163 | 0 | 79.3 | 53.1 | 110 | | | | |
| Pyrene | 1,720 | 43.3 | 2,163 | 0 | 79.7 | 52.5 | 109 | | | | |
| Benz(a)anthracene | 1,780 | 21.6 | 2,163 | 0 | 82.3 | 53.4 | 112 | | | | |
| Chrysene | 1,670 | 21.6 | 2,163 | 0 | 77.1 | 52 | 105 | | | | |

Work Order: 2303024
 CLIENT: Libby Environmental
 Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: 2303025-001AMS | SampType: MS | Units: µg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82230 | | | | | | | |
|----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39601 | | Analysis Date: 3/3/2023 | SeqNo: 1707858 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzo(b)fluoranthene | 1,750 | 27.0 | 2,163 | 0 | 81.0 | 51.3 | 119 | | | | |
| Benzo(k)fluoranthene | 1,670 | 27.0 | 2,163 | 0 | 77.2 | 50.3 | 108 | | | | |
| Benzo(a)pyrene | 1,750 | 32.4 | 2,163 | 0 | 80.8 | 48.5 | 106 | | | | |
| Indeno(1,2,3-cd)pyrene | 1,860 | 43.3 | 2,163 | 26.14 | 84.8 | 42.1 | 113 | | | | |
| Dibenz(a,h)anthracene | 1,880 | 54.1 | 2,163 | 31.40 | 85.5 | 40.4 | 114 | | | | |
| Benzo(g,h,i)perylene | 1,830 | 54.1 | 2,163 | 0 | 84.6 | 34.7 | 105 | | | | |
| Surr: 2-Fluorobiphenyl | 719 | | 1,082 | | 66.4 | 34.4 | 132 | | | | |
| Surr: Terphenyl-d14 (surr) | 747 | | 1,082 | | 69.1 | 32.8 | 147 | | | | |

| Sample ID: 2303025-001AMSD | SampType: MSD | Units: µg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82230 | | | | | | | |
|-----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|--------|----------|------|
| Client ID: BATCH | Batch ID: 39601 | | Analysis Date: 3/3/2023 | SeqNo: 1707859 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | 1,730 | 21.7 | 2,167 | 0 | 80.0 | 55.7 | 105 | 1,763 | 1.68 | 30 | |
| 2-Methylnaphthalene | 1,720 | 21.7 | 2,167 | 0 | 79.5 | 56.6 | 103 | 1,725 | 0.0889 | 30 | |
| 1-Methylnaphthalene | 1,730 | 21.7 | 2,167 | 0 | 79.7 | 56.1 | 101 | 1,717 | 0.661 | 30 | |
| Acenaphthene | 1,710 | 21.7 | 2,167 | 0 | 78.8 | 55.9 | 107 | 1,685 | 1.40 | 30 | |
| Acenaphthylene | 1,720 | 21.7 | 2,167 | 0 | 79.4 | 53.8 | 100 | 1,696 | 1.43 | 30 | |
| Phenanthrene | 1,750 | 21.7 | 2,167 | 0 | 80.6 | 49.1 | 109 | 1,721 | 1.46 | 30 | |
| Fluorene | 1,760 | 21.7 | 2,167 | 0 | 81.2 | 55.7 | 107 | 1,741 | 1.06 | 30 | |
| Anthracene | 1,720 | 21.7 | 2,167 | 0 | 79.4 | 52.4 | 107 | 1,677 | 2.56 | 30 | |
| Fluoranthene | 1,760 | 21.7 | 2,167 | 0 | 81.2 | 53.1 | 110 | 1,715 | 2.61 | 30 | |
| Pyrene | 1,780 | 43.3 | 2,167 | 0 | 82.3 | 52.5 | 109 | 1,724 | 3.41 | 30 | |
| Benz(a)anthracene | 1,830 | 21.7 | 2,167 | 0 | 84.4 | 53.4 | 112 | 1,780 | 2.68 | 30 | |
| Chrysene | 1,720 | 21.7 | 2,167 | 0 | 79.5 | 52 | 105 | 1,667 | 3.23 | 30 | |
| Benzo(b)fluoranthene | 1,840 | 27.1 | 2,167 | 0 | 84.8 | 51.3 | 119 | 1,752 | 4.70 | 30 | |
| Benzo(k)fluoranthene | 1,730 | 27.1 | 2,167 | 0 | 79.8 | 50.3 | 108 | 1,671 | 3.49 | 30 | |
| Benzo(a)pyrene | 1,820 | 32.5 | 2,167 | 0 | 83.8 | 48.5 | 106 | 1,748 | 3.77 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1,940 | 43.3 | 2,167 | 26.14 | 88.5 | 42.1 | 113 | 1,860 | 4.44 | 30 | |
| Dibenz(a,h)anthracene | 2,000 | 54.2 | 2,167 | 31.40 | 90.9 | 40.4 | 114 | 1,881 | 6.23 | 30 | |
| Benzo(g,h,i)perylene | 1,880 | 54.2 | 2,167 | 0 | 86.7 | 34.7 | 105 | 1,830 | 2.58 | 30 | |

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

| Sample ID: 2303025-001AMSD | SampType: MSD | Units: µg/Kg-dry | Prep Date: 3/3/2023 | RunNo: 82230 | | | | | | | |
|-----------------------------------|------------------------|--------------------------------|----------------------------|---------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 39601 | Analysis Date: 3/3/2023 | SeqNo: 1707859 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 2-Fluorobiphenyl | 723 | | 1,084 | | 66.7 | 34.4 | 132 | | 0 | | |
| Surr: Terphenyl-d14 (surr) | 760 | | 1,084 | | 70.2 | 32.8 | 147 | | 0 | | |

Client Name: LIBBY
 Logged by: Clare Griggs

Work Order Number: 2303024
 Date Received: 3/2/2023 9:44:00 AM

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

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

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Sample | 3.8 |

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



2303024

Libby Environmental, Inc.

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

**SUBCONTRACT
ORDER
L23C001**

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

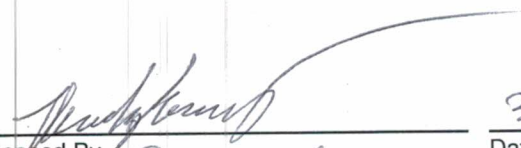
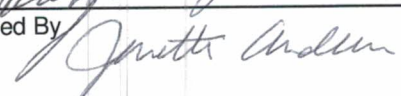
Subcontracted Laboratory:


Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) Std

Project: Delphi Quarry

| Analysis | Comments |
|---|---|
| <p>Client Sample ID: #2 Soil Sampled: 02/28/2023 12:00</p> <p>8270 PAH Metals SUB MTCA 4 <i>Containers Supplied:</i></p> | <p>Lab ID: L23C001-01</p> <p>+Naphths Totals please</p> |


 Released By _____ Date 3.1.23

 _____ Date 3.1.23


 Received By _____ Date 3/2/23

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 06/06/2023

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
Address: 525 West Cota, Shelton, WA 98584
Attn: Eric Schellenger

Transmittal No. : 25

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton - Public Works Dept.
Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
Location: Shelton, WA

Use One Form Per Item Submitted

| Qty | Spec. Paragraph No. | Spec Page No. | Item Description and Use | Manufacturer | Dwg. No.(s) | Approval Status Engineer |
|-----|---------------------|---------------|---|---------------------|-------------|--------------------------|
| 1 | 2.4.2.1 | | Environmental Testing - Low Permeability Soil Layer | Libby Environmental | | |
| | | | | | | |
| | | | | | | |

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- No Exceptions Taken
- Make Corrections Noted
- Revise and Resubmit
- Submit Specified Item
- Rejected
- See Attached Review Comment Sheet Dated _____

By: _____
CC: _____



Libby Environmental, Inc.

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

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

June 06, 2023

Josh Franzke
Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

RE: Delphi Soil
Work Order Number: L23E107

Enclosed are the results of analyses for samples received by our laboratory on 5/26/2023.

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

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

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.co

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 5/26/23

Page: 2 of 2

Client: BRUMFIELD CONSTRUCTION INC

Project Manager: JOSH FRANZKE

Address: 2007 WESTPORT RD

Project Name: Delphi Soil

City: ABERDEEN State: WA Zip: 98520

Location: Delphi Quarry City, State: Olympia, WA

Phone: 360-268-9231 Fax:

Collector: GAGE Date of Collection: 5/26

Client Project #

Email: JOSH@BRUMFIELDINC.COM



| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | Field Notes | | | | | | |
|---------------|-------|------|-------------|----------------|----------|----------------------|----------|----------------------|------------|---------------|----------|---------------|---------------|----------|-------------|---------------|--|--|--|--|--|
| | | | | | VOC 8260 | PCE & Daughter Prod. | NWTPH-Gx | BTEX (8260) / (8021) | NWTPH-HCID | NWTPH-Dx / Dx | PCB 8082 | MTCA 5 Metals | RCRA 8 Metals | PAH 8270 | | Semi Vol 8270 | | | | | |
| 1 | D-18 | 2ft | 9:00 AM | Soil | | | | | | | | | | | | | | | | | |
| 2 | D-19 | | 9:00 AM | | | | | | | | | | | | | | | | | | |
| 3 | D-20 | | 9:00 AM | | | | | | | | | | | | | | | | | | |
| 4 | D-21 | | 9:05 AM | | | | | | | | | | | | | | | | | | |
| 5 | D-22 | | 9:05 AM | | | | | | | | | | | | | | | | | | |
| 6 | D-23 | | 9:05 AM | | | | | | | | | | | | | | | | | | |
| 7 | D-24 | | 9:30 AM | | | | | | | | | | | | | | | | | | |
| 8 | D-25 | | 9:40 AM | | | | | | | | | | | | | | | | | | |
| 9 | D-26 | | 9:45 AM | | | | | | | | | | | | | | | | | | |
| 10 | D-27 | | 9:50 AM | | | | | | | | | | | | | | | | | | |
| 11 | D-28 | | 10:15 AM | | | | | | | | | | | | | | | | | | |
| 12 | D-29 | | 10:25 AM | | | | | | | | | | | | | | | | | | |
| 13 | D-30 | | 10:45 AM | | | | | | | | | | | | | | | | | | |
| 14 | D-31 | | 11:05 AM | | | | | | | | | | | | | | | | | | |
| 15 | D-32 | | 11:15 AM | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--------------------------------|----------------------------|--------------------------|----------------------------|--|--------------------------------------|
| Relinquished by: GAGE HARSHMAN | Date / Time: 5/26/23 11:55 | Received by: [Signature] | Date / Time: 5/26/23 11:55 | Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers | Remarks: TAT: 24HR 48HR 5-DAY |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Notes and Definitions

| Item | Definition |
|--|---|
| A | Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data. |
| F | High concentration of co-eluting target compounds interfering with surrogate recovery. Outlying surrogate recoveries expected. |
| I | Analyte with an internal standard that does not meet established acceptance criteria. Result should be considered and estimate. |
| S1 | Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect. |
| S3 | Outlying spike recovery observed (high bias). Analyte will be qualified with a ** if detected. |
| RL | Reporting Limit |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| DET | Analyte DETECTED at or above the reporting limit |
| Qual | Qualifier |
| All results reported on an "as received" basis unless indicated by "Dry" | |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Parent | Sample that was matrix spiked or duplicated |

Work Order Sample Summary

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|------------|--------|--------|--------------|---------------|
| L23E107-01 | D-1 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-02 | D-2 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-03 | D-3 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-04 | D-4 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-05 | D-5 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-06 | D-6 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-07 | D-7 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-08 | D-8 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-09 | D-9 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-10 | D-10 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-11 | D-11 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-12 | D-12 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-13 | D-13 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-14 | D-14 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-15 | D-15 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-16 | D-16 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-17 | D-17 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-18 | D-18 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-19 | D-19 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-20 | D-20 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-21 | D-21 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-22 | D-22 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-23 | D-23 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-24 | D-24 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-25 | D-25 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-26 | D-26 | Soil | 05/26/2023 | 05/26/2023 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil

Project Manager: Josh Franzke

City/State: Aberdeen, WA

Work Order: L23E107

Reported: 06/06/2023 14:55

Work Order Sample Summary

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|---------------|---------------|---------------|---------------------|----------------------|
| L23E107-27 | D-27 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-28 | D-28 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-29 | D-29 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-30 | D-30 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-31 | D-31 | Soil | 05/26/2023 | 05/26/2023 |
| L23E107-32 | D-32 | Soil | 05/26/2023 | 05/26/2023 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary

| Analyte | Result | Qual | Units | RL | Method |
|---------------------|--------|------|------------------|-----|--------|
| Sample: D-1 | | | Lab#: L23E107-01 | | |
| Chromium | 9.0 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-2 | | | Lab#: L23E107-02 | | |
| Chromium | 9.8 | | mg/kg dry | 6.3 | 7010 |
| Sample: D-3 | | | Lab#: L23E107-03 | | |
| Chromium | 11 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-4 | | | Lab#: L23E107-04 | | |
| Chromium | 12 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-5 | | | Lab#: L23E107-05 | | |
| Chromium | 15 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-6 | | | Lab#: L23E107-06 | | |
| Chromium | 11 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-7 | | | Lab#: L23E107-07 | | |
| Chromium | 18 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-8 | | | Lab#: L23E107-08 | | |
| Chromium | 11 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-9 | | | Lab#: L23E107-09 | | |
| Chromium | 11 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-10 | | | Lab#: L23E107-10 | | |
| Chromium | 7.9 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-11 | | | Lab#: L23E107-11 | | |
| Chromium | 9.9 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-12 | | | Lab#: L23E107-12 | | |
| Chromium | 14 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-13 | | | Lab#: L23E107-13 | | |
| Chromium | 11 | | mg/kg dry | 6.3 | 7010 |
| Sample: D-14 | | | Lab#: L23E107-14 | | |
| Chromium | 11 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-15 | | | Lab#: L23E107-15 | | |
| Chromium | 12 | | mg/kg dry | 6.2 | 7010 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary (Continued)

| Analyte | Result | Qual | Units | RL | Method |
|---------------------|--------|------|------------------|-----|--------|
| Sample: D-16 | | | Lab#: L23E107-16 | | |
| Chromium | 14 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-17 | | | Lab#: L23E107-17 | | |
| Chromium | 13 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-18 | | | Lab#: L23E107-18 | | |
| Chromium | 10 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-19 | | | Lab#: L23E107-19 | | |
| Chromium | 11 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-20 | | | Lab#: L23E107-20 | | |
| Chromium | 9.6 | | mg/kg dry | 5.9 | 7010 |
| Sample: D-21 | | | Lab#: L23E107-21 | | |
| Chromium | 16 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-22 | | | Lab#: L23E107-22 | | |
| Chromium | 12 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-23 | | | Lab#: L23E107-23 | | |
| Chromium | 12 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-24 | | | Lab#: L23E107-24 | | |
| Chromium | 12 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-25 | | | Lab#: L23E107-25 | | |
| Chromium | 11 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-26 | | | Lab#: L23E107-26 | | |
| Chromium | 12 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-27 | | | Lab#: L23E107-27 | | |
| Chromium | 10 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-28 | | | Lab#: L23E107-28 | | |
| Chromium | 14 | | mg/kg dry | 6.2 | 7010 |
| Sample: D-29 | | | Lab#: L23E107-29 | | |
| Chromium | 9.6 | | mg/kg dry | 6.0 | 7010 |
| Sample: D-30 | | | Lab#: L23E107-30 | | |
| Chromium | 7.4 | | mg/kg dry | 5.9 | 7010 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary (Continued)

| Analyte | Result | Qual | Units | RL | Method |
|---------------------|--------|------|-----------|-----|------------------|
| Sample: D-31 | | | | | Lab#: L23E107-31 |
| Chromium | 7.5 | | mg/kg dry | 6.1 | 7010 |
| Sample: D-32 | | | | | Lab#: L23E107-32 |
| Chromium | 9.2 | | mg/kg dry | 6.1 | 7010 |

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



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results

Client Sample ID: D-1

Lab ID: L23E107-01 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/01/2023 | JA |
| Surrogate: 2-FBP (SIM) | 96.0% | | 52-115 | | 06/01/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 90.0% | | 40-116 | | 06/01/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 100% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 73.5% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.0 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-1

Lab ID: L23E107-01 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-2

Lab ID: L23E107-02 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 96.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 90.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 18 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 100% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 63 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 99.0% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.3 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.3 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.8 | | 6.3 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.3 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.63 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-2

Lab ID: L23E107-02 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 20 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-3

Lab ID: L23E107-03 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 98.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 92.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 98.6% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 104% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-3

Lab ID: L23E107-03 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-4

Lab ID: L23E107-04 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 104% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 100% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 99.0% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 93.7% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-4

Lab ID: L23E107-04 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-5

Lab ID: L23E107-05 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 98.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 92.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 86.2% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 102% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 15 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-5

Lab ID: L23E107-05 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-6

Lab ID: L23E107-06 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 100% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 106% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 74.1% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-6

Lab ID: L23E107-06 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-7

Lab ID: L23E107-07 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 102% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 109% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 93.1% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 18 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-7

Lab ID: L23E107-07 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 20 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-8

Lab ID: L23E107-08 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 102% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 96.2% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 102% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-8

Lab ID: L23E107-08 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-9

Lab ID: L23E107-09 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 102% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 108% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 74.5% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-9

Lab ID: L23E107-09 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-10

Lab ID: L23E107-10 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 100% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 98.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 111% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 94.5% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 7.9 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-10

Lab ID: L23E107-10 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-11

Lab ID: L23E107-11 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 104% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 98.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 106% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 108% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.9 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-11

Lab ID: L23E107-11 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-12

Lab ID: L23E107-12 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 104% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 98.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 109% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 70.7% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 14 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-12

Lab ID: L23E107-12 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-13

Lab ID: L23E107-13 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 102% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 18 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 105% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 63 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 91.3% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.3 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.3 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.3 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.3 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.63 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-13

Lab ID: L23E107-13 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 20 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-14

Lab ID: L23E107-14 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 106% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 100% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 110% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 100% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-14

Lab ID: L23E107-14 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-15

Lab ID: L23E107-15 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 108% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 102% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 108% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 72.7% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-15

Lab ID: L23E107-15 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 20 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-16

Lab ID: L23E107-16 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 98.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 107% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 96.5% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 14 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-16

Lab ID: L23E107-16 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-17

Lab ID: L23E107-17 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 100% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 106% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 103% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 13 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-17

Lab ID: L23E107-17 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-18

Lab ID: L23E107-18 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 100% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 94.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 106% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 68.0% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 10 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-18

Lab ID: L23E107-18 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-19

Lab ID: L23E107-19 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 102% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 98.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/30/2023 | PB |
| Surrogate: Toluene-d8 | 98.2% | | 41-142 | | 05/30/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 101% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-19

Lab ID: L23E107-19 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-20

Lab ID: L23E107-20 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 100% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 104% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 59 | mg/kg dry | 05/31/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/31/2023 | ES |
| Surrogate: 2-FBP | 96.1% | | 43.6-129 | | 05/31/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 5.9 | mg/kg dry | 06/05/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.6 | | 5.9 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 5.9 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.59 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-20

Lab ID: L23E107-20 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 16 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-21

Lab ID: L23E107-21 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 90.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 90.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 98.9% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 74.0% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 16 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-21

Lab ID: L23E107-21 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-22

Lab ID: L23E107-22 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/02/2023 | JA |
| Surrogate: 2-FBP (SIM) | 90.0% | | 52-115 | | 06/02/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 92.0% | | 40-116 | | 06/02/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 109% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 68.8% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-22

Lab ID: L23E107-22 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-23

Lab ID: L23E107-23 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.060 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 98.0% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 98.0% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 107% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 69.6% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-23

Lab ID: L23E107-23 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-24

Lab ID: L23E107-24 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Surrogate: 2-FBP (SIM) | 90.0% | | 52-115 | | 06/03/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 92.0% | | 40-116 | | 06/03/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 107% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 72.0% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-24

Lab ID: L23E107-24 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-25

Lab ID: L23E107-25 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 94.0% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 108% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 77.2% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 11 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-25

Lab ID: L23E107-25 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-26

Lab ID: L23E107-26 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 106% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 106% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 109% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 98.2% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 12 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-26

Lab ID: L23E107-26 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-27

Lab ID: L23E107-27 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 112% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 112% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 105% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 106% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 10 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-27

Lab ID: L23E107-27 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 17 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-28

Lab ID: L23E107-28 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Fluorene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Chrysene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.025 | mg/kg dry | 06/03/2023 | JA |
| Surrogate: 2-FBP (SIM) | 92.0% | | 52-115 | | 06/03/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 90.0% | | 40-116 | | 06/03/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 107% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 62 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 75.5% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.2 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 14 | | 6.2 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.2 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-28

Lab ID: L23E107-28 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 19 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-29

Lab ID: L23E107-29 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 96.0% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 105% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 60 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 99.4% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.0 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.6 | | 6.0 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.0 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-29

Lab ID: L23E107-29 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 16 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-30

Lab ID: L23E107-30 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Surrogate: 2-FBP (SIM) | 94.0% | | 52-115 | | 06/03/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/03/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 16 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 110% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 59 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 106% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 5.9 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 7.4 | | 5.9 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 5.9 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.59 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-30

Lab ID: L23E107-30 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 15 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-31

Lab ID: L23E107-31 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/05/2023 | JA |
| Surrogate: 2-FBP (SIM) | 96.0% | | 52-115 | | 06/05/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 96.0% | | 40-116 | | 06/05/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 107% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 300 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 71.1% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 7.5 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-31

Lab ID: L23E107-31 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|----------------------------------|--------|------|------|-------|---------------|------------------|
| Moisture by ASTM D2216-19 | | | | | | |
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-32

Lab ID: L23E107-32 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---|--------|------|----------|-----------|---------------|------------------|
| Semivolatile Organic Compounds by EPA Method 8270E | | | | | | |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | 06/03/2023 | JA |
| Surrogate: 2-FBP (SIM) | 92.0% | | 52-115 | | 06/03/2023 | JA |
| Surrogate: p-Terphenyl-d14 (SIM) | 92.0% | | 40-116 | | 06/03/2023 | JA |
| Gasoline by Method NWTPH-Gx | | | | | | |
| Gasoline | ND | | 17 | mg/kg dry | 05/31/2023 | PB |
| Surrogate: Toluene-d8 | 108% | | 41-142 | | 05/31/2023 | PB |
| Diesel and Oil by NWTPH-Dx/Dx | | | | | | |
| Diesel | ND | | 61 | mg/kg dry | 05/30/2023 | ES |
| Oil | ND | | 310 | mg/kg dry | 05/30/2023 | ES |
| Surrogate: 2-FBP | 100% | | 43.6-129 | | 05/30/2023 | ES |
| Total Metals by EPA Method 7010 | | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | 06/06/2023 | KD |
| Cadmium | ND | | 1.2 | mg/kg dry | 06/01/2023 | KD |
| Chromium | 9.2 | | 6.1 | mg/kg dry | 06/01/2023 | KD |
| Lead | ND | | 6.1 | mg/kg dry | 06/02/2023 | KD |
| Mercury by EPA 7471B | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | 05/30/2023 | KD |
| Moisture by ASTM D2216-19 | | | | | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-32

Lab ID: L23E107-32 (Soil)

| Analyte | Result | Qual | RL | Units | Date Analyzed | Analyst Initials |
|---------|--------|------|----|-------|---------------|------------------|
|---------|--------|------|----|-------|---------------|------------------|

Moisture by ASTM D2216-19 (Continued)

| | | | | | | |
|----------|----|--|------|---|------------|----|
| Moisture | 18 | | 0.50 | % | 05/30/2023 | SG |
|----------|----|--|------|---|------------|----|



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control

Semivolatile Organic Compounds by EPA Method 8270E

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: BXE0170 - Extraction

Blank (BXE0170-BLK1)

Prepared: 5/30/2023 Analyzed: 6/2/2023

| | | | | | | | | | | |
|----------------------------------|----|--|-------|-----------|-------|--|------|--------|--|--|
| Naphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 2-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 1-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluorene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Phenanthrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benz(a)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Chrysene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(b)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(k)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(a)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Surrogate: 2-FBP (SIM) | | | 0.470 | mg/kg | 0.500 | | 94.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.490 | mg/kg | 0.500 | | 98.0 | 40-116 | | |

LCS (BXE0170-BS1)

Prepared: 5/30/2023 Analyzed: 6/1/2023

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-----------|-------|--|------|--------|--|--|
| Naphthalene (SIM) | 1.48 | | 0.020 | mg/kg wet | 2.00 | | 74.0 | 60-130 | | |
| 2-Methylnaphthalene (SIM) | 1.47 | | 0.020 | mg/kg wet | 2.00 | | 73.7 | 60-130 | | |
| 1-Methylnaphthalene (SIM) | 1.68 | | 0.020 | mg/kg wet | 2.00 | | 84.1 | 60-130 | | |
| Acenaphthylene (SIM) | 1.44 | | 0.020 | mg/kg wet | 2.00 | | 71.8 | 60-130 | | |
| Acenaphthene (SIM) | 1.55 | | 0.020 | mg/kg wet | 2.00 | | 77.5 | 60-130 | | |
| Fluorene (SIM) | 1.75 | | 0.020 | mg/kg wet | 2.00 | | 87.6 | 60-130 | | |
| Phenanthrene (SIM) | 1.78 | | 0.020 | mg/kg wet | 2.00 | | 88.9 | 60-130 | | |
| Anthracene (SIM) | 1.40 | | 0.020 | mg/kg wet | 2.00 | | 70.2 | 60-130 | | |
| Fluoranthene (SIM) | 1.69 | | 0.020 | mg/kg wet | 2.00 | | 84.6 | 60-130 | | |
| Pyrene (SIM) | 1.79 | | 0.020 | mg/kg wet | 2.00 | | 89.4 | 60-130 | | |
| Benz(a)anthracene (SIM) | 1.62 | | 0.020 | mg/kg wet | 2.00 | | 81.0 | 60-130 | | |
| Chrysene (SIM) | 1.77 | I | 0.020 | mg/kg wet | 2.00 | | 88.6 | 60-130 | | |
| Benzo(b)fluoranthene (SIM) | 2.65 | I, S3 | 0.020 | mg/kg wet | 2.00 | | 132 | 60-130 | | |
| Benzo(k)fluoranthene (SIM) | 2.63 | I, S3 | 0.020 | mg/kg wet | 2.00 | | 132 | 60-130 | | |
| Benzo(a)pyrene (SIM) | 2.23 | I | 0.020 | mg/kg wet | 2.00 | | 111 | 60-130 | | |
| Indeno(1,2,3-cd)pyrene (SIM) | 2.26 | I | 0.020 | mg/kg wet | 2.00 | | 113 | 60-130 | | |
| Dibenz(a,h)anthracene (SIM) | 1.79 | I | 0.020 | mg/kg wet | 2.00 | | 89.5 | 60-130 | | |
| Benzo(g,h,i)perylene (SIM) | 2.26 | I | 0.020 | mg/kg wet | 2.00 | | 113 | 60-130 | | |
| Surrogate: 2-FBP (SIM) | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.440 | mg/kg | 0.500 | | 88.0 | 40-116 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|---------------------------|-------|-----------|---------------------|---------------|--------------------|-------------|-----|-----------|
| Duplicate (BXE0170-DUP1) | | Parent: L23E107-01 | | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.480 | mg/kg | 0.500 | | 96.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.470 | mg/kg | 0.500 | | 94.0 | 40-116 | | |
| Matrix Spike (BXE0170-MS1) | | Parent: L23E107-01 | | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | |
| Naphthalene (SIM) | 1.75 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 72.3 | 75-104 | | |
| 2-Methylnaphthalene (SIM) | 1.71 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 70.6 | 73-102 | | |
| 1-Methylnaphthalene (SIM) | 1.96 | | 0.024 | mg/kg dry | 2.42 | ND | 81.0 | 76-107 | | |
| Acenaphthylene (SIM) | 1.66 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 68.8 | 72-96 | | |
| Acenaphthene (SIM) | 1.82 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 75.2 | 82-105 | | |
| Fluorene (SIM) | 2.04 | | 0.024 | mg/kg dry | 2.42 | ND | 84.6 | 76-104 | | |
| Phenanthrene (SIM) | 2.11 | | 0.024 | mg/kg dry | 2.42 | ND | 87.2 | 82-112 | | |
| Anthracene (SIM) | 1.65 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 68.2 | 75-105 | | |
| Fluoranthene (SIM) | 2.03 | | 0.024 | mg/kg dry | 2.42 | ND | 83.9 | 71-112 | | |
| Pyrene (SIM) | 1.99 | | 0.024 | mg/kg dry | 2.42 | ND | 82.3 | 71-100 | | |
| Benz(a)anthracene (SIM) | 1.87 | | 0.024 | mg/kg dry | 2.42 | ND | 77.3 | 60-100 | | |
| Chrysene (SIM) | 2.04 | | 0.024 | mg/kg dry | 2.42 | ND | 84.5 | 67-110 | | |
| Benzo(b)fluoranthene (SIM) | 1.82 | | 0.024 | mg/kg dry | 2.42 | ND | 75.5 | 17-130 | | |
| Benzo(k)fluoranthene (SIM) | 1.91 | | 0.024 | mg/kg dry | 2.42 | ND | 78.9 | 41-127 | | |
| Benzo(a)pyrene (SIM) | 1.69 | | 0.024 | mg/kg dry | 2.42 | ND | 69.8 | 30-105 | | |
| Indeno(1,2,3-cd)pyrene (SIM) | 2.11 | | 0.024 | mg/kg dry | 2.42 | ND | 87.2 | 10-120 | | |
| Dibenz(a,h)anthracene (SIM) | 1.81 | | 0.024 | mg/kg dry | 2.42 | ND | 74.9 | 10-124 | | |
| Benzo(g,h,i)perylene (SIM) | 2.10 | | 0.024 | mg/kg dry | 2.42 | ND | 86.7 | 26-108 | | |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.440 | mg/kg | 0.500 | | 88.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.420 | mg/kg | 0.500 | | 84.0 | 40-116 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|---------------------------|-------|---------------------|-------------|--------------------|------|-------------|------|-----------|
| Matrix Spike Dup (BXE0170-MSD1) | | Parent: L23E107-01 | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | | |
| Naphthalene (SIM) | 1.88 | | 0.024 | mg/kg dry | 2.42 | ND | 78.0 | 75-104 | 7.58 | 35 |
| 2-Methylnaphthalene (SIM) | 1.84 | | 0.024 | mg/kg dry | 2.42 | ND | 76.1 | 73-102 | 7.50 | 35 |
| 1-Methylnaphthalene (SIM) | 2.11 | | 0.024 | mg/kg dry | 2.42 | ND | 87.3 | 76-107 | 7.49 | 35 |
| Acenaphthylene (SIM) | 1.78 | | 0.024 | mg/kg dry | 2.42 | ND | 73.7 | 72-96 | 6.88 | 35 |
| Acenaphthene (SIM) | 1.93 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 79.8 | 82-105 | 5.94 | 35 |
| Fluorene (SIM) | 2.18 | | 0.024 | mg/kg dry | 2.42 | ND | 90.3 | 76-104 | 6.52 | 35 |
| Phenanthrene (SIM) | 2.22 | | 0.024 | mg/kg dry | 2.42 | ND | 92.0 | 82-112 | 5.36 | 35 |
| Anthracene (SIM) | 1.77 | S1 | 0.024 | mg/kg dry | 2.42 | ND | 73.2 | 75-105 | 7.07 | 35 |
| Fluoranthene (SIM) | 2.16 | | 0.024 | mg/kg dry | 2.42 | ND | 89.2 | 71-112 | 6.12 | 35 |
| Pyrene (SIM) | 2.14 | | 0.024 | mg/kg dry | 2.42 | ND | 88.6 | 71-100 | 7.37 | 35 |
| Benz(a)anthracene (SIM) | 1.94 | | 0.024 | mg/kg dry | 2.42 | ND | 80.4 | 60-100 | 3.93 | 35 |
| Chrysene (SIM) | 2.17 | | 0.024 | mg/kg dry | 2.42 | ND | 89.9 | 67-110 | 6.19 | 35 |
| Benzo(b)fluoranthene (SIM) | 1.92 | | 0.024 | mg/kg dry | 2.42 | ND | 79.5 | 17-130 | 5.16 | 35 |
| Benzo(k)fluoranthene (SIM) | 1.97 | | 0.024 | mg/kg dry | 2.42 | ND | 81.5 | 41-127 | 3.24 | 35 |
| Benzo(a)pyrene (SIM) | 1.82 | | 0.024 | mg/kg dry | 2.42 | ND | 75.4 | 30-105 | 7.71 | 35 |
| Indeno(1,2,3-cd)pyrene (SIM) | 2.18 | | 0.024 | mg/kg dry | 2.42 | ND | 90.1 | 10-120 | 3.27 | 35 |
| Dibenz(a,h)anthracene (SIM) | 1.90 | | 0.024 | mg/kg dry | 2.42 | ND | 78.5 | 10-124 | 4.69 | 35 |
| Benzo(g,h,i)perylene (SIM) | 2.18 | | 0.024 | mg/kg dry | 2.42 | ND | 90.4 | 26-108 | 4.18 | 35 |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.430 | mg/kg | 0.500 | | 86.0 | 40-116 | | |
| Blank (BXE0176-BLK1) | | | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | | |
| Naphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 2-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 1-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluorene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Phenanthrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benz(a)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Chrysene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(b)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(k)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(a)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.490 | mg/kg | 0.500 | | 98.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.480 | mg/kg | 0.500 | | 96.0 | 40-116 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------------|--------|------|-------|-----------|---|---------------|------|-------------|-----|-----------|
| LCS (BXE0176-BS1) | | | | | Prepared: 5/30/2023 Analyzed: 6/2/2023 | | | | | |
| Naphthalene (SIM) | 1.56 | | 0.020 | mg/kg wet | 2.00 | | 77.8 | 60-130 | | |
| 2-Methylnaphthalene (SIM) | 1.51 | | 0.020 | mg/kg wet | 2.00 | | 75.3 | 60-130 | | |
| 1-Methylnaphthalene (SIM) | 1.71 | | 0.020 | mg/kg wet | 2.00 | | 85.6 | 60-130 | | |
| Acenaphthylene (SIM) | 1.63 | | 0.020 | mg/kg wet | 2.00 | | 81.3 | 60-130 | | |
| Acenaphthene (SIM) | 1.57 | | 0.020 | mg/kg wet | 2.00 | | 78.3 | 60-130 | | |
| Fluorene (SIM) | 1.76 | | 0.020 | mg/kg wet | 2.00 | | 88.2 | 60-130 | | |
| Phenanthrene (SIM) | 1.74 | | 0.020 | mg/kg wet | 2.00 | | 87.1 | 60-130 | | |
| Anthracene (SIM) | 1.51 | | 0.020 | mg/kg wet | 2.00 | | 75.3 | 60-130 | | |
| Fluoranthene (SIM) | 1.77 | | 0.020 | mg/kg wet | 2.00 | | 88.5 | 60-130 | | |
| Pyrene (SIM) | 1.75 | | 0.020 | mg/kg wet | 2.00 | | 87.5 | 60-130 | | |
| Benz(a)anthracene (SIM) | 1.73 | | 0.020 | mg/kg wet | 2.00 | | 86.4 | 60-130 | | |
| Chrysene (SIM) | 1.79 | | 0.020 | mg/kg wet | 2.00 | | 89.4 | 60-130 | | |
| Benzo(b)fluoranthene (SIM) | 1.61 | | 0.020 | mg/kg wet | 2.00 | | 80.3 | 60-130 | | |
| Benzo(k)fluoranthene (SIM) | 1.69 | | 0.020 | mg/kg wet | 2.00 | | 84.3 | 60-130 | | |
| Benzo(a)pyrene (SIM) | 1.63 | | 0.020 | mg/kg wet | 2.00 | | 81.3 | 60-130 | | |
| Indeno(1,2,3-cd)pyrene (SIM) | 1.85 | | 0.020 | mg/kg wet | 2.00 | | 92.3 | 60-130 | | |
| Dibenz(a,h)anthracene (SIM) | 1.60 | | 0.020 | mg/kg wet | 2.00 | | 79.8 | 60-130 | | |
| Benzo(g,h,i)perylene (SIM) | 1.78 | | 0.020 | mg/kg wet | 2.00 | | 88.8 | 60-130 | | |
| Surrogate: 2-FBP (SIM) | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.440 | mg/kg | 0.500 | | 88.0 | 40-116 | | |
| Duplicate (BXE0176-DUP1) | | | | | Parent: L23E107-21 Prepared: 5/30/2023 Analyzed: 6/2/2023 | | | | | |
| Naphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| 2-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| 1-Methylnaphthalene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Acenaphthylene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Acenaphthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Fluorene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Phenanthrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benz(a)anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Chrysene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(b)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(k)fluoranthene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(a)pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.024 | mg/kg dry | | ND | | | | 35 |
| Surrogate: 2-FBP (SIM) | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.460 | mg/kg | 0.500 | | 92.0 | 40-116 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|---------------------------|-------|---------------------|-------------|--------------------|------|-------------|-------|-----------|
| Matrix Spike (BXE0176-MS1) | | Parent: L23E107-21 | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | | |
| Naphthalene (SIM) | 1.92 | | 0.024 | mg/kg dry | 2.43 | ND | 78.9 | 75-104 | | |
| 2-Methylnaphthalene (SIM) | 1.88 | | 0.024 | mg/kg dry | 2.43 | ND | 77.3 | 73-102 | | |
| 1-Methylnaphthalene (SIM) | 2.14 | | 0.024 | mg/kg dry | 2.43 | ND | 88.1 | 76-107 | | |
| Acenaphthylene (SIM) | 1.94 | | 0.024 | mg/kg dry | 2.43 | ND | 79.9 | 72-96 | | |
| Acenaphthene (SIM) | 1.92 | SI | 0.024 | mg/kg dry | 2.43 | ND | 78.9 | 82-105 | | |
| Fluorene (SIM) | 2.16 | | 0.024 | mg/kg dry | 2.43 | ND | 89.1 | 76-104 | | |
| Phenanthrene (SIM) | 2.15 | | 0.024 | mg/kg dry | 2.43 | ND | 88.6 | 82-112 | | |
| Anthracene (SIM) | 1.84 | | 0.024 | mg/kg dry | 2.43 | ND | 75.7 | 75-105 | | |
| Fluoranthene (SIM) | 2.20 | | 0.024 | mg/kg dry | 2.43 | ND | 90.5 | 71-112 | | |
| Pyrene (SIM) | 2.17 | | 0.024 | mg/kg dry | 2.43 | ND | 89.2 | 71-100 | | |
| Benz(a)anthracene (SIM) | 2.07 | | 0.024 | mg/kg dry | 2.43 | ND | 85.2 | 60-100 | | |
| Chrysene (SIM) | 2.20 | | 0.024 | mg/kg dry | 2.43 | ND | 90.4 | 67-110 | | |
| Benzo(b)fluoranthene (SIM) | 2.00 | | 0.024 | mg/kg dry | 2.43 | ND | 82.4 | 17-130 | | |
| Benzo(k)fluoranthene (SIM) | 1.99 | | 0.024 | mg/kg dry | 2.43 | ND | 81.9 | 41-127 | | |
| Benzo(a)pyrene (SIM) | 1.69 | | 0.024 | mg/kg dry | 2.43 | ND | 69.4 | 30-105 | | |
| Indeno(1,2,3-cd)pyrene (SIM) | 2.12 | | 0.024 | mg/kg dry | 2.43 | ND | 87.2 | 10-120 | | |
| Dibenz(a,h)anthracene (SIM) | 1.93 | | 0.024 | mg/kg dry | 2.43 | ND | 79.4 | 10-124 | | |
| Benzo(g,h,i)perylene (SIM) | 2.14 | | 0.024 | mg/kg dry | 2.43 | ND | 87.9 | 26-108 | | |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.450 | mg/kg | 0.500 | | 90.0 | 40-116 | | |
| Matrix Spike Dup (BXE0176-MSD1) | | Parent: L23E107-21 | | Prepared: 5/30/2023 | | Analyzed: 6/2/2023 | | | | |
| Naphthalene (SIM) | 1.88 | | 0.024 | mg/kg dry | 2.43 | ND | 77.3 | 75-104 | 2.05 | 35 |
| 2-Methylnaphthalene (SIM) | 1.85 | | 0.024 | mg/kg dry | 2.43 | ND | 76.2 | 73-102 | 1.43 | 35 |
| 1-Methylnaphthalene (SIM) | 2.12 | | 0.024 | mg/kg dry | 2.43 | ND | 87.4 | 76-107 | 0.798 | 35 |
| Acenaphthylene (SIM) | 1.91 | | 0.024 | mg/kg dry | 2.43 | ND | 78.6 | 72-96 | 1.64 | 35 |
| Acenaphthene (SIM) | 1.89 | SI | 0.024 | mg/kg dry | 2.43 | ND | 77.8 | 82-105 | 1.40 | 35 |
| Fluorene (SIM) | 2.13 | | 0.024 | mg/kg dry | 2.43 | ND | 87.7 | 76-104 | 1.58 | 35 |
| Phenanthrene (SIM) | 2.12 | | 0.024 | mg/kg dry | 2.43 | ND | 87.4 | 82-112 | 1.36 | 35 |
| Anthracene (SIM) | 1.81 | SI | 0.024 | mg/kg dry | 2.43 | ND | 74.6 | 75-105 | 1.46 | 35 |
| Fluoranthene (SIM) | 2.16 | | 0.024 | mg/kg dry | 2.43 | ND | 89.0 | 71-112 | 1.67 | 35 |
| Pyrene (SIM) | 2.13 | | 0.024 | mg/kg dry | 2.43 | ND | 87.7 | 71-100 | 1.70 | 35 |
| Benz(a)anthracene (SIM) | 2.03 | | 0.024 | mg/kg dry | 2.43 | ND | 83.5 | 60-100 | 2.02 | 35 |
| Chrysene (SIM) | 2.17 | | 0.024 | mg/kg dry | 2.43 | ND | 89.5 | 67-110 | 1.00 | 35 |
| Benzo(b)fluoranthene (SIM) | 1.84 | | 0.024 | mg/kg dry | 2.43 | ND | 75.8 | 17-130 | 8.34 | 35 |
| Benzo(k)fluoranthene (SIM) | 1.96 | | 0.024 | mg/kg dry | 2.43 | ND | 80.5 | 41-127 | 1.72 | 35 |
| Benzo(a)pyrene (SIM) | 1.75 | | 0.024 | mg/kg dry | 2.43 | ND | 72.2 | 30-105 | 3.95 | 35 |
| Indeno(1,2,3-cd)pyrene (SIM) | 2.06 | | 0.024 | mg/kg dry | 2.43 | ND | 85.0 | 10-120 | 2.56 | 35 |
| Dibenz(a,h)anthracene (SIM) | 1.84 | | 0.024 | mg/kg dry | 2.43 | ND | 75.6 | 10-124 | 4.90 | 35 |
| Benzo(g,h,i)perylene (SIM) | 2.09 | | 0.024 | mg/kg dry | 2.43 | ND | 86.0 | 26-108 | 2.19 | 35 |
| <i>Surrogate: 2-FBP (SIM)</i> | | | 0.420 | mg/kg | 0.500 | | 84.0 | 52-115 | | |
| <i>Surrogate: p-Terphenyl-d14 (SIM)</i> | | | 0.420 | mg/kg | 0.500 | | 84.0 | 40-116 | | |
| Blank (BXF0028-BLK1) | | | | Prepared: 5/30/2023 | | Analyzed: 6/5/2023 | | | | |
| Naphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 2-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| 1-Methylnaphthalene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Acenaphthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluorene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Phenanthrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------------|--------|------|-------|-----------|--|---------------|------|-------------|-----|-----------|
| Blank (BXF0028-BLK1) | | | | | Prepared: 5/30/2023 Analyzed: 6/5/2023 | | | | | |
| Pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benz(a)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Chrysene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(b)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(k)fluoranthene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(a)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Indeno(1,2,3-cd)pyrene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Dibenz(a,h)anthracene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Benzo(g,h,i)perylene (SIM) | ND | | 0.020 | mg/kg wet | | | | | | |
| Surrogate: 2-FBP (SIM) | | | 0.480 | mg/kg | 0.500 | | 96.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.490 | mg/kg | 0.500 | | 98.0 | 40-116 | | |
| LCS (BXF0028-BS1) | | | | | Prepared: 5/30/2023 Analyzed: 6/5/2023 | | | | | |
| Naphthalene (SIM) | 1.60 | | 0.020 | mg/kg wet | 2.00 | | 80.1 | 60-130 | | |
| 2-Methylnaphthalene (SIM) | 1.54 | | 0.020 | mg/kg wet | 2.00 | | 77.0 | 60-130 | | |
| 1-Methylnaphthalene (SIM) | 1.79 | | 0.020 | mg/kg wet | 2.00 | | 89.6 | 60-130 | | |
| Acenaphthylene (SIM) | 1.56 | | 0.020 | mg/kg wet | 2.00 | | 77.8 | 60-130 | | |
| Acenaphthene (SIM) | 1.63 | | 0.020 | mg/kg wet | 2.00 | | 81.7 | 60-130 | | |
| Fluorene (SIM) | 1.81 | | 0.020 | mg/kg wet | 2.00 | | 90.6 | 60-130 | | |
| Phenanthrene (SIM) | 1.87 | | 0.020 | mg/kg wet | 2.00 | | 93.4 | 60-130 | | |
| Anthracene (SIM) | 1.52 | | 0.020 | mg/kg wet | 2.00 | | 76.1 | 60-130 | | |
| Fluoranthene (SIM) | 1.74 | | 0.020 | mg/kg wet | 2.00 | | 86.9 | 60-130 | | |
| Pyrene (SIM) | 2.00 | | 0.020 | mg/kg wet | 2.00 | | 100 | 60-130 | | |
| Benz(a)anthracene (SIM) | 1.71 | | 0.020 | mg/kg wet | 2.00 | | 85.7 | 60-130 | | |
| Chrysene (SIM) | 1.94 | | 0.020 | mg/kg wet | 2.00 | | 97.1 | 60-130 | | |
| Benzo(b)fluoranthene (SIM) | 1.82 | | 0.020 | mg/kg wet | 2.00 | | 90.8 | 60-130 | | |
| Benzo(k)fluoranthene (SIM) | 1.93 | | 0.020 | mg/kg wet | 2.00 | | 96.7 | 60-130 | | |
| Benzo(a)pyrene (SIM) | 1.74 | | 0.020 | mg/kg wet | 2.00 | | 86.8 | 60-130 | | |
| Indeno(1,2,3-cd)pyrene (SIM) | 1.80 | | 0.020 | mg/kg wet | 2.00 | | 90.2 | 60-130 | | |
| Dibenz(a,h)anthracene (SIM) | 1.59 | | 0.020 | mg/kg wet | 2.00 | | 79.7 | 60-130 | | |
| Benzo(g,h,i)perylene (SIM) | 1.89 | | 0.020 | mg/kg wet | 2.00 | | 94.3 | 60-130 | | |
| Surrogate: 2-FBP (SIM) | | | 0.460 | mg/kg | 0.500 | | 92.0 | 52-115 | | |
| Surrogate: p-Terphenyl-d14 (SIM) | | | 0.470 | mg/kg | 0.500 | | 94.0 | 40-116 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Gasoline by Method NWTPH-Gx

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|------|------|-----------|---------------------|---------------------|------|-------------|-----|-----------|
| Batch: BXE0175 - VOA | | | | | | | | | | |
| Blank (BXE0175-BLK1) | | | | | | | | | | |
| Gasoline | ND | | 10 | mg/kg wet | | | | | | |
| Surrogate: Toluene-d8 | | | 19.9 | ug/L | 20.0 | | 99.4 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/30/2023 | | | | |
| Blank (BXE0175-BLK2) | | | | | | | | | | |
| Gasoline | ND | | 10 | mg/kg wet | | | | | | |
| Surrogate: Toluene-d8 | | | 19.0 | ug/L | 20.0 | | 94.9 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/31/2023 | | | | |
| Duplicate (BXE0175-DUP1) | | | | | | | | | | |
| Gasoline | ND | | 28 | mg/kg dry | | ND | | | | 200 |
| Surrogate: Toluene-d8 | | | 20.4 | ug/L | 20.0 | | 102 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/30/2023 | | | | |
| Duplicate (BXE0175-DUP2) | | | | | | | | | | |
| Gasoline | ND | | 29 | mg/kg dry | | ND | | | | 200 |
| Surrogate: Toluene-d8 | | | 22.2 | ug/L | 20.0 | | 111 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/30/2023 | | | | |
| Duplicate (BXE0175-DUP3) | | | | | | | | | | |
| Gasoline | ND | | 29 | mg/kg dry | | ND | | | | 200 |
| Surrogate: Toluene-d8 | | | 20.5 | ug/L | 20.0 | | 103 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/30/2023 | | | | |
| Duplicate (BXE0175-DUP4) | | | | | | | | | | |
| Gasoline | ND | | 29 | mg/kg dry | | ND | | | | 200 |
| Surrogate: Toluene-d8 | | | 21.2 | ug/L | 20.0 | | 106 | 41-142 | | |
| | | | | | Prepared: 5/26/2023 | Analyzed: 5/30/2023 | | | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Diesel and Oil by NWTPH-Dx/Dx

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|------------------------------------|--------|------|---------------------------|-----------|---|---|------|-------------|------|-----------|
| Batch: BXE0168 - Extraction | | | | | | | | | | |
| Blank (BXE0168-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 5/30/2023 Analyzed: 5/31/2023 | | | | | |
| Diesel | ND | | 50 | mg/kg wet | | | | | | |
| Oil | ND | | 250 | mg/kg wet | | | | | | |
| <i>Surrogate: 2-FBP</i> | | | 20.4 | ug/mL | 20.0 | | 102 | 43.6-129 | | |
| LCS (BXE0168-BS1) | | | | | | | | | | |
| | | | | | Prepared: 5/30/2023 Analyzed: 5/31/2023 | | | | | |
| Diesel | 116 | | 50 | mg/kg wet | 100 | | 116 | 72.6-130 | | |
| <i>Surrogate: 2-FBP</i> | | | 25.2 | ug/mL | 20.0 | | 126 | 43.6-129 | | |
| Duplicate (BXE0168-DUP1) | | | | | | | | | | |
| | | | Parent: L23E107-01 | | | Prepared: 5/30/2023 Analyzed: 5/31/2023 | | | | |
| Diesel | ND | | 60 | mg/kg dry | | ND | | | | 35 |
| Oil | ND | | 300 | mg/kg dry | | ND | | | | 35 |
| <i>Surrogate: 2-FBP</i> | | | 14.5 | ug/mL | 20.0 | | 72.3 | 43.6-129 | | |
| Duplicate (BXE0168-DUP2) | | | | | | | | | | |
| | | | Parent: L23E107-20 | | | Prepared: 5/30/2023 Analyzed: 5/31/2023 | | | | |
| Diesel | ND | | 59 | mg/kg dry | | ND | | | | 35 |
| Oil | ND | | 300 | mg/kg dry | | ND | | | | 35 |
| <i>Surrogate: 2-FBP</i> | | | 18.8 | ug/mL | 20.0 | | 94.2 | 43.6-129 | | |
| Blank (BXE0169-BLK1) | | | | | | | | | | |
| | | | | | Prepared & Analyzed: 5/30/2023 | | | | | |
| Diesel | ND | | 50 | mg/kg wet | | | | | | |
| Oil | ND | | 250 | mg/kg wet | | | | | | |
| <i>Surrogate: 2-FBP</i> | | | 20.8 | ug/mL | 20.0 | | 104 | 43.6-129 | | |
| LCS (BXE0169-BS1) | | | | | | | | | | |
| | | | | | Prepared & Analyzed: 5/30/2023 | | | | | |
| Diesel | 95.6 | | 50 | mg/kg wet | 100 | | 95.6 | 72.6-130 | | |
| <i>Surrogate: 2-FBP</i> | | | 22.8 | ug/mL | 20.0 | | 114 | 43.6-129 | | |
| Duplicate (BXE0169-DUP1) | | | | | | | | | | |
| | | | Parent: L23E104-01 | | | Prepared & Analyzed: 5/30/2023 | | | | |
| Diesel | 24600 | | 560 | mg/kg dry | | 22500 | | | 9.21 | 35 |
| Oil | ND | | 2800 | mg/kg dry | | ND | | | | 35 |
| <i>Surrogate: 2-FBP</i> | | | F | 182 | ug/mL | 20.0 | 908 | 43.6-129 | | |
| Duplicate (BXE0169-DUP2) | | | | | | | | | | |
| | | | Parent: L23E107-32 | | | Prepared & Analyzed: 5/30/2023 | | | | |
| Diesel | ND | | 61 | mg/kg dry | | ND | | | | 35 |
| Oil | ND | | 310 | mg/kg dry | | ND | | | | 35 |
| <i>Surrogate: 2-FBP</i> | | | 19.5 | ug/mL | 20.0 | | 97.4 | 43.6-129 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Total Metals by EPA Method 7010

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: BXF0003 - Metals Digest

Blank (BXF0003-BLK1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|----|--|-----|-----------|--|--|--|--|--|--|
| Arsenic | ND | | 5.0 | mg/kg wet | | | | | | |
| Cadmium | ND | | 1.0 | mg/kg wet | | | | | | |
| Chromium | ND | | 5.0 | mg/kg wet | | | | | | |
| Lead | ND | | 5.0 | mg/kg wet | | | | | | |

LCS (BXF0003-BS1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|-------|--|-----|-----------|------|--|------|--------|--|--|
| Arsenic | 1.03 | | 5.0 | mg/kg wet | 1.00 | | 103 | 80-120 | | |
| Cadmium | 0.826 | | 2.0 | mg/kg wet | 1.00 | | 82.6 | 80-120 | | |
| Chromium | 1.18 | | 5.0 | mg/kg wet | 1.00 | | 118 | 80-120 | | |
| Lead | 1.04 | | 5.0 | mg/kg wet | 1.00 | | 104 | 80-120 | | |

LCS Dup (BXF0003-BSD1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|-------|--|-----|-----------|------|--|------|--------|------|----|
| Arsenic | 0.878 | | 5.0 | mg/kg wet | 1.00 | | 87.8 | 80-120 | 16.3 | 20 |
| Cadmium | 0.860 | | 2.0 | mg/kg wet | 1.00 | | 86.0 | 80-120 | 3.94 | 20 |
| Chromium | 1.15 | | 5.0 | mg/kg wet | 1.00 | | 115 | 80-120 | 2.28 | 20 |
| Lead | 0.901 | | 5.0 | mg/kg wet | 1.00 | | 90.1 | 80-120 | 14.3 | 20 |

Duplicate (BXF0003-DUP1)

Parent: L23E107-01

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|--------|--|-----|-----------|--|------|--|--|------|----|
| Arsenic | ND | | 6.0 | mg/kg dry | | ND | | | | 20 |
| Cadmium | 0.0466 | | 1.2 | mg/kg dry | | ND | | | | 20 |
| Chromium | 9.33 | | 6.0 | mg/kg dry | | 8.99 | | | 3.77 | 20 |
| Lead | 1.43 | | 6.0 | mg/kg dry | | 1.38 | | | 3.58 | 20 |

Duplicate (BXF0003-DUP2)

Parent: L23E107-11

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|------|--|-----|-----------|--|--------|--|--|------|----|
| Arsenic | ND | | 6.2 | mg/kg dry | | ND | | | | 20 |
| Cadmium | ND | | 1.2 | mg/kg dry | | 0.0659 | | | | 20 |
| Chromium | 10.6 | | 6.2 | mg/kg dry | | 9.89 | | | 7.04 | 20 |
| Lead | 1.50 | | 6.2 | mg/kg dry | | 1.32 | | | 12.6 | 20 |

Matrix Spike (BXF0003-MS1)

Parent: L23E107-01

Prepared: 6/1/2023 Analyzed: 6/5/2023

| | | | | | | | | | | |
|----------|------|---|-----|-----------|------|------|------|--------|--|--|
| Arsenic | 1.38 | | 6.0 | mg/kg dry | 1.21 | ND | 114 | 75-125 | | |
| Cadmium | 1.14 | | 2.4 | mg/kg dry | 1.21 | ND | 94.4 | 75-125 | | |
| Chromium | 13.7 | A | 6.0 | mg/kg dry | 1.21 | 8.99 | 394 | 75-125 | | |
| Lead | 2.47 | | 6.0 | mg/kg dry | 1.21 | 1.38 | 90.4 | 75-125 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Total Metals by EPA Method 7010 (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|---------------------------|-----|-----------|---------------------------------------|---------------|------|-------------|------|-----------|
| Matrix Spike Dup (BXF0003-MSD1) | | Parent: L23E107-01 | | | Prepared: 6/1/2023 Analyzed: 6/5/2023 | | | | | |
| Arsenic | 1.31 | | 6.0 | mg/kg dry | 1.21 | ND | 108 | 75-125 | 5.13 | 20 |
| Cadmium | 1.09 | | 2.4 | mg/kg dry | 1.21 | ND | 90.3 | 75-125 | 4.44 | 20 |
| Chromium | 12.7 | A | 6.0 | mg/kg dry | 1.21 | 8.99 | 311 | 75-125 | 7.54 | 20 |
| Lead | 2.54 | | 6.0 | mg/kg dry | 1.21 | 1.38 | 96.3 | 75-125 | 2.82 | 20 |
| Post Spike (BXF0003-PS1) | | Parent: L23E107-01 | | | Prepared & Analyzed: 6/1/2023 | | | | | |
| Chromium | 55.2 | | 240 | mg/kg dry | 48.3 | 8.99 | 95.6 | 75-125 | | |
| Post Spike (BXF0003-PS2) | | Parent: L23E107-01 | | | Prepared & Analyzed: 6/1/2023 | | | | | |
| Chromium | 57.6 | | 240 | mg/kg dry | 48.3 | 8.99 | 101 | 75-125 | | |
| Blank (BXF0004-BLK1) | | | | | Prepared: 6/1/2023 Analyzed: 6/6/2023 | | | | | |
| Arsenic | ND | | 5.0 | mg/kg wet | | | | | | |
| Cadmium | ND | | 1.0 | mg/kg wet | | | | | | |
| Chromium | ND | | 5.0 | mg/kg wet | | | | | | |
| Lead | ND | | 5.0 | mg/kg wet | | | | | | |
| LCS (BXF0004-BS1) | | | | | Prepared: 6/1/2023 Analyzed: 6/6/2023 | | | | | |
| Arsenic | 1.17 | | 5.0 | mg/kg wet | 1.00 | | 117 | 80-120 | | |
| Cadmium | 1.02 | | 2.0 | mg/kg wet | 1.00 | | 102 | 80-120 | | |
| Chromium | 1.15 | | 5.0 | mg/kg wet | 1.00 | | 115 | 80-120 | | |
| Lead | 0.870 | | 5.0 | mg/kg wet | 1.00 | | 87.0 | 80-120 | | |
| LCS Dup (BXF0004-BSD1) | | | | | Prepared: 6/1/2023 Analyzed: 6/6/2023 | | | | | |
| Arsenic | 1.08 | | 5.0 | mg/kg wet | 1.00 | | 108 | 80-120 | 8.41 | 20 |
| Cadmium | 0.935 | | 2.0 | mg/kg wet | 1.00 | | 93.5 | 80-120 | 8.39 | 20 |
| Chromium | 0.986 | | 5.0 | mg/kg wet | 1.00 | | 98.6 | 80-120 | 15.7 | 20 |
| Lead | 0.961 | | 5.0 | mg/kg wet | 1.00 | | 96.1 | 80-120 | 9.96 | 20 |
| Duplicate (BXF0004-DUP1) | | Parent: L23E107-21 | | | Prepared: 6/1/2023 Analyzed: 6/6/2023 | | | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | | 2.78 | | | | 20 |
| Cadmium | ND | | 1.2 | mg/kg dry | | ND | | | | 20 |
| Chromium | 17.8 | | 6.1 | mg/kg dry | | 15.9 | | | 11.2 | 20 |
| Lead | 1.24 | | 6.1 | mg/kg dry | | 1.12 | | | 9.98 | 20 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Total Metals by EPA Method 7010 (Continued)

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|---------------------------|-----|-----------|-------------------------------|---------------|--------------------|-------------|------|-----------|
| Duplicate (BXF0004-DUP2) | | Parent: L23E107-32 | | | Prepared: 6/1/2023 | | Analyzed: 6/6/2023 | | | |
| Arsenic | ND | | 6.1 | mg/kg dry | | 1.30 | | | | 20 |
| Cadmium | ND | | 1.2 | mg/kg dry | | ND | | | | 20 |
| Chromium | 7.76 | | 6.1 | mg/kg dry | | 9.15 | | | 16.4 | 20 |
| Lead | ND | | 6.1 | mg/kg dry | | 0.936 | | | | 20 |
| Matrix Spike (BXF0004-MS1) | | Parent: L23E107-21 | | | Prepared: 6/1/2023 | | Analyzed: 6/6/2023 | | | |
| Arsenic | 4.11 | | 6.1 | mg/kg dry | 1.21 | 2.78 | 110 | 75-125 | | |
| Cadmium | 1.14 | | 2.4 | mg/kg dry | 1.21 | ND | 93.9 | 75-125 | | |
| Chromium | 15.9 | A | 6.1 | mg/kg dry | 1.21 | 15.9 | 2.01 | 75-125 | | |
| Lead | 2.22 | | 6.1 | mg/kg dry | 1.21 | 1.12 | 90.7 | 75-125 | | |
| Matrix Spike Dup (BXF0004-MSD1) | | Parent: L23E107-21 | | | Prepared: 6/1/2023 | | Analyzed: 6/6/2023 | | | |
| Arsenic | 4.29 | | 6.1 | mg/kg dry | 1.21 | 2.78 | 125 | 75-125 | 4.29 | 20 |
| Cadmium | 1.10 | | 2.4 | mg/kg dry | 1.21 | ND | 90.5 | 75-125 | 3.64 | 20 |
| Chromium | 16.4 | A | 6.1 | mg/kg dry | 1.21 | 15.9 | 39.5 | 75-125 | 2.82 | 20 |
| Lead | 2.28 | | 6.1 | mg/kg dry | 1.21 | 1.12 | 95.7 | 75-125 | 2.73 | 20 |
| Post Spike (BXF0004-PS1) | | Parent: L23E107-21 | | | Prepared & Analyzed: 6/1/2023 | | | | | |
| Chromium | 111 | | 490 | mg/kg dry | 97.2 | 15.9 | 98.0 | 75-125 | | |
| Post Spike (BXF0004-PS2) | | Parent: L23E107-21 | | | Prepared & Analyzed: 6/1/2023 | | | | | |
| Chromium | 105 | | 490 | mg/kg dry | 97.2 | 15.9 | 91.5 | 75-125 | | |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Mercury by EPA 7471B

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|------|-----------|-------------|---------------|------|-------------|------|--------------------------------|
| Batch: BXE0171 - Metals Digest | | | | | | | | | | |
| Blank (BXE0171-BLK1) | | | | | | | | | | |
| Mercury | ND | | 0.50 | mg/kg wet | | | | | | Prepared & Analyzed: 5/30/2023 |
| LCS (BXE0171-BS1) | | | | | | | | | | |
| Mercury | 1.98 | | 0.50 | mg/kg wet | 2.00 | | 99.0 | 80-120 | | Prepared & Analyzed: 5/30/2023 |
| Duplicate (BXE0171-DUP1) | | | | | | | | | | |
| Mercury | ND | | 0.60 | mg/kg dry | | ND | | | | Prepared & Analyzed: 5/30/2023 |
| Duplicate (BXE0171-DUP2) | | | | | | | | | | |
| Mercury | ND | | 0.62 | mg/kg dry | | ND | | | | Prepared & Analyzed: 5/30/2023 |
| Matrix Spike (BXE0171-MS1) | | | | | | | | | | |
| Mercury | 2.56 | | 0.60 | mg/kg dry | 2.42 | ND | 106 | 80-120 | | Prepared & Analyzed: 5/30/2023 |
| Matrix Spike Dup (BXE0171-MSD1) | | | | | | | | | | |
| Mercury | 2.45 | | 0.60 | mg/kg dry | 2.42 | ND | 101 | 80-120 | 4.49 | Prepared & Analyzed: 5/30/2023 |
| Blank (BXE0173-BLK1) | | | | | | | | | | |
| Mercury | ND | | 0.50 | mg/kg wet | | | | | | Prepared & Analyzed: 5/30/2023 |
| LCS (BXE0173-BS1) | | | | | | | | | | |
| Mercury | 1.75 | | 0.50 | mg/kg wet | 2.00 | | 87.4 | 80-120 | | Prepared & Analyzed: 5/30/2023 |
| Duplicate (BXE0173-DUP1) | | | | | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | | ND | | | | Prepared & Analyzed: 5/30/2023 |
| Duplicate (BXE0173-DUP2) | | | | | | | | | | |
| Mercury | ND | | 0.61 | mg/kg dry | | ND | | | | Prepared & Analyzed: 5/30/2023 |
| Matrix Spike (BXE0173-MS1) | | | | | | | | | | |
| Mercury | 2.24 | | 0.61 | mg/kg dry | 2.43 | ND | 92.0 | 80-120 | | Prepared & Analyzed: 5/30/2023 |
| Matrix Spike Dup (BXE0173-MSD1) | | | | | | | | | | |
| Mercury | 2.12 | | 0.61 | mg/kg dry | 2.43 | ND | 87.4 | 80-120 | 5.19 | Prepared & Analyzed: 5/30/2023 |



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Moisture by ASTM D2216-19

| Analyte | Result | Qual | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|------|----|-------|-------------|---------------|------|-------------|-----|-----------|

Batch: *BXE0172 - Gen Chem*

LCS (BXE0172-BS1)

| | | | | | | | | | | |
|----------|----|--|--|---|------|--|-----|--------|--|--|
| Moisture | 18 | | | % | 17.0 | | 103 | 90-115 | | |
|----------|----|--|--|---|------|--|-----|--------|--|--|

Prepared & Analyzed: 5/30/2023

LCS (BXE0174-BS1)

| | | | | | | | | | | |
|----------|----|--|--|---|------|--|-----|--------|--|--|
| Moisture | 18 | | | % | 17.0 | | 105 | 90-115 | | |
|----------|----|--|--|---|------|--|-----|--------|--|--|

Prepared & Analyzed: 5/30/2023

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI SOIL PROJECT

Brumfield Construction

Libby Project # L23E107

Date Received 5/20/2023

Time Received 11:55 AM

Received By JC

Sample Receipt Checklist

Chain of Custody

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

Log In

3. Cooler or Shipping Container is present. Yes No N/A
4. Cooler or Shipping Container is in good condition. Yes No N/A
5. Cooler or Shipping Container has Custody Seals present. Yes No N/A
6. Was an attempt made to cool the samples? Yes No N/A
7. Temperature of cooler (0°C to 8°C recommended) 1.5 °C
8. Temperature of sample(s) (0°C to 8°C recommended) 26.5 °C
9. Did all containers arrive in good condition (unbroken)? Yes No
10. Is it clear what analyses were requested? Yes No
11. Did container labels match Chain of Custody? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Are correct containers used for the analysis indicated? Yes No
14. Is there sufficient sample volume for indicated analysis? Yes No
15. Were all containers properly preserved per each analysis? Yes No
16. Were VOA vials collected correctly (no headspace)? Yes No N/A
17. Were all holding times able to be met? Yes No

Discrepancies/ Notes

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

Person Notified: Gage

Date: 5/26/2023

By Whom: JC

Via: Voicemail

Regarding: Sample Volume

19. Comments. Sample D-9, received 4oz jar and empty 20mL VOAs. Transferred volume from jar to VOA upon arrival for Gx analysis.

APPENDIX E

Low Permeability Soil Laboratory Permeability and Proctor Tests



January 20, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.

2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figures and following Tables. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Two samples were delivered to our laboratory on December 19, 2022 by Brumfield Construction personnel. The samples were contained in four 5-gallon buckets (two buckets per sample) designated as Delphi, S-1 and Green Diamond, S-1.

Based on manual-visual methods, the soil description for the samples were as follows:

Delphi, S-1 Dark reddish-brown, silty GRAVEL with sand (GM)

Green Diamond, S-1 Very dark brown, silty SAND with gravel (SM)

PARTICLE SIZE ANALYSIS OF SOILS: The samples were tested to determine the particle size distribution in general accordance with ASTM D6913, using sieve analysis only. The results are plotted on the attached Particle Size Distribution reports, Figures 1 through 2.

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. The test was performed on the portion of the sample passing 3/4", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the amount of over-sized material using method ASTM D4718. The test results are summarized on the attached Laboratory Compaction Test reports, Figures 3 through 4.

HYDRAULIC CONDUCTIVITY OF SOIL (FLEXI-WALL TRIAXIAL CHAMBER METHOD): The hydraulic conductivity (also commonly referred to as coefficient of permeability) of the samples was measured in general accordance with method ASTM D5084. The samples were screened over a 3/4" sieve in preparation for 4-inch molds and as such the uncorrected modified proctor values were used. Initially, the samples were laboratory compacted to a target density of at least 90% of Modified Proctor at approximately 2% over optimum moisture content. Actual densities achieved were 91.2% of maximum dry density (Delphi) and 90.3% of maximum dry density (Green Diamond). The results of these trials were above the required minimum permeability rate of 1.0×10^{-6} cm/sec. As directed by the client, two additional samples were compacted to a target density of 95% of maximum dry density at approximately 2% over optimum moisture content. Test samples were re-molded and weighed prior to placement within a flexible membrane within a triaxial pressure chamber. An effective confining pressure of 3 psi was applied. Testing was conducted until inflow was approximately equal to outflow and the hydraulic conductivity was essentially steady. A summary of the results is presented below in Tables 1 and 2. The test results are presented in detail on the attached Hydraulic Conductivity Test Report, Figures 5 through 8.

Table 1 - Hydraulic Conductivity Test Results of Delphi, S-1

| Sample | % Relative Compaction Uncorrected (D1557) | Dry Unit Weight | Remolded Moisture Content | Hydraulic Conductivity |
|-------------|---|-----------------|---------------------------|-----------------------------|
| Delphi, S-1 | 91.2 | 112.7 pcf | 13.9% | 1.6×10^{-6} cm/sec |
| | 95.0 | 117.4 pcf | 15.3% | 2.6×10^{-7} cm/sec |

Table 2 - Hydraulic Conductivity Test Results of Green Diamond, S-1

| Sample | % Relative Compaction Uncorrected (D1557) | Dry Unit Weight | Remolded Moisture Content | Hydraulic Conductivity |
|--------------------|---|-----------------|---------------------------|-----------------------------|
| Green Diamond, S-1 | 90.3 | 99.2 pcf | 19.8% | 2.3×10^{-6} cm/sec |
| | 95.0 | 103.4 pcf | 19.8% | 6.9×10^{-8} cm/sec |



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

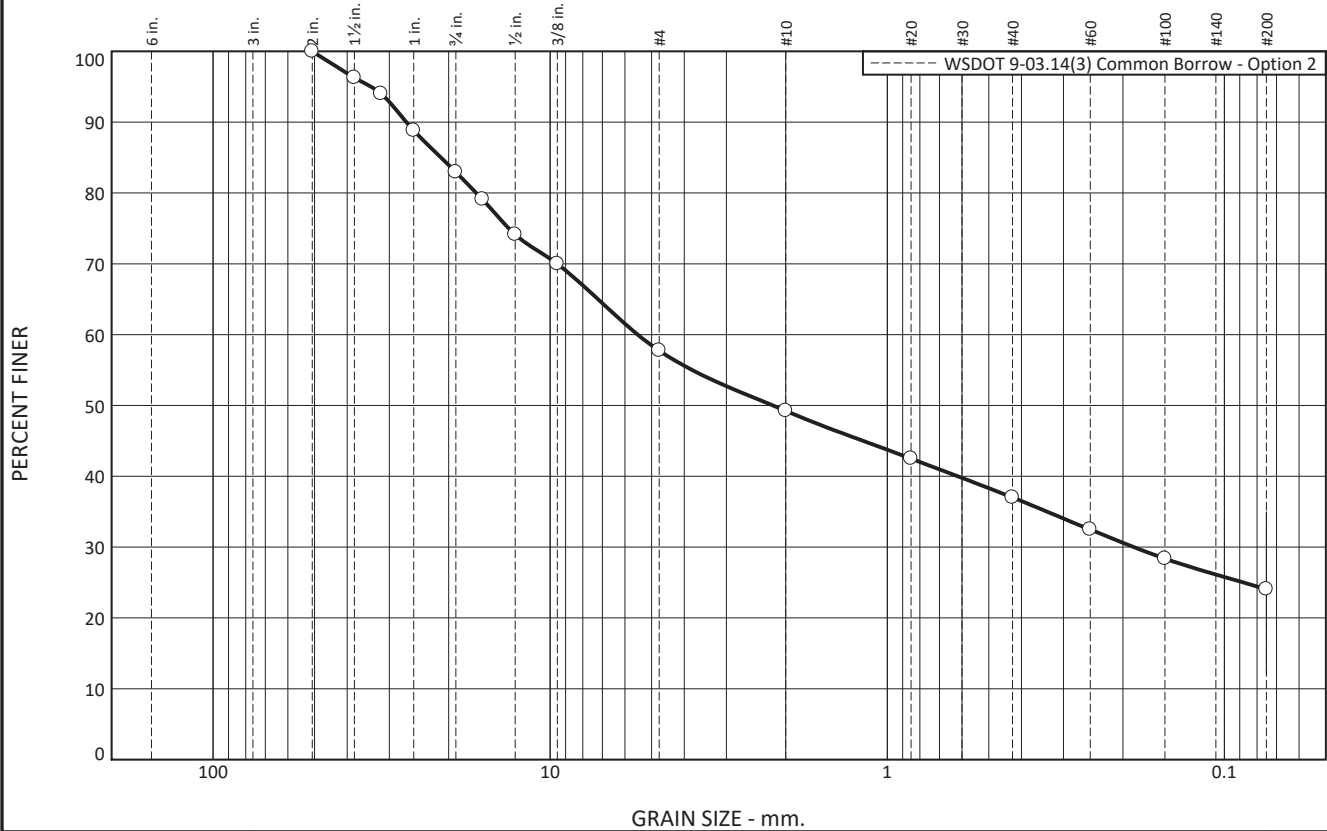
Alex Hodges
Materials Laboratory Supervisor

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

- Figures 1-2 Particle Size Distribution Report
- Figures 3-4 Compaction Test Report
- Figures 5-8 Hydraulic Conductivity Test Report

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines |
|-------|----------|------|--------|--------|------|---------|
| | Coarse | Fine | Coarse | Medium | Fine | |
| 0 | 17 | 25 | 9 | 12 | 13 | 24 |

| SIEVE SIZE OR DIAMETER | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---------------------------|------------------|-------------------|-----------------|
| 2" | 100 | | |
| 1-1/2" | 96 | | |
| 1-1/4" | 94 | | |
| 1" | 89 | | |
| 3/4" | 83 | | |
| 5/8" | 79 | | |
| 1/2" | 74 | | |
| 3/8" | 70 | | |
| #4 | 58 | | |
| #10 | 49 | | |
| #20 | 42 | | |
| #40 | 37 | | |
| #60 | 32 | | |
| #100 | 28 | | |
| #200 | 24 | 12.1-35 | |

Soil Description

Dark reddish-brown, silty GRAVEL with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 26.7185 D₈₅= 21.0918 D₆₀= 5.4987
D₅₀= 2.1837 D₃₀= 0.1855 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= GM AASHTO=

Remarks

Natural Moisture: 18.0%

* WSDOT 9-03.14(3) Common Borrow - Option 2

Source of Sample: Delphi
Sample Number: S-1

Date: 12/19/2022

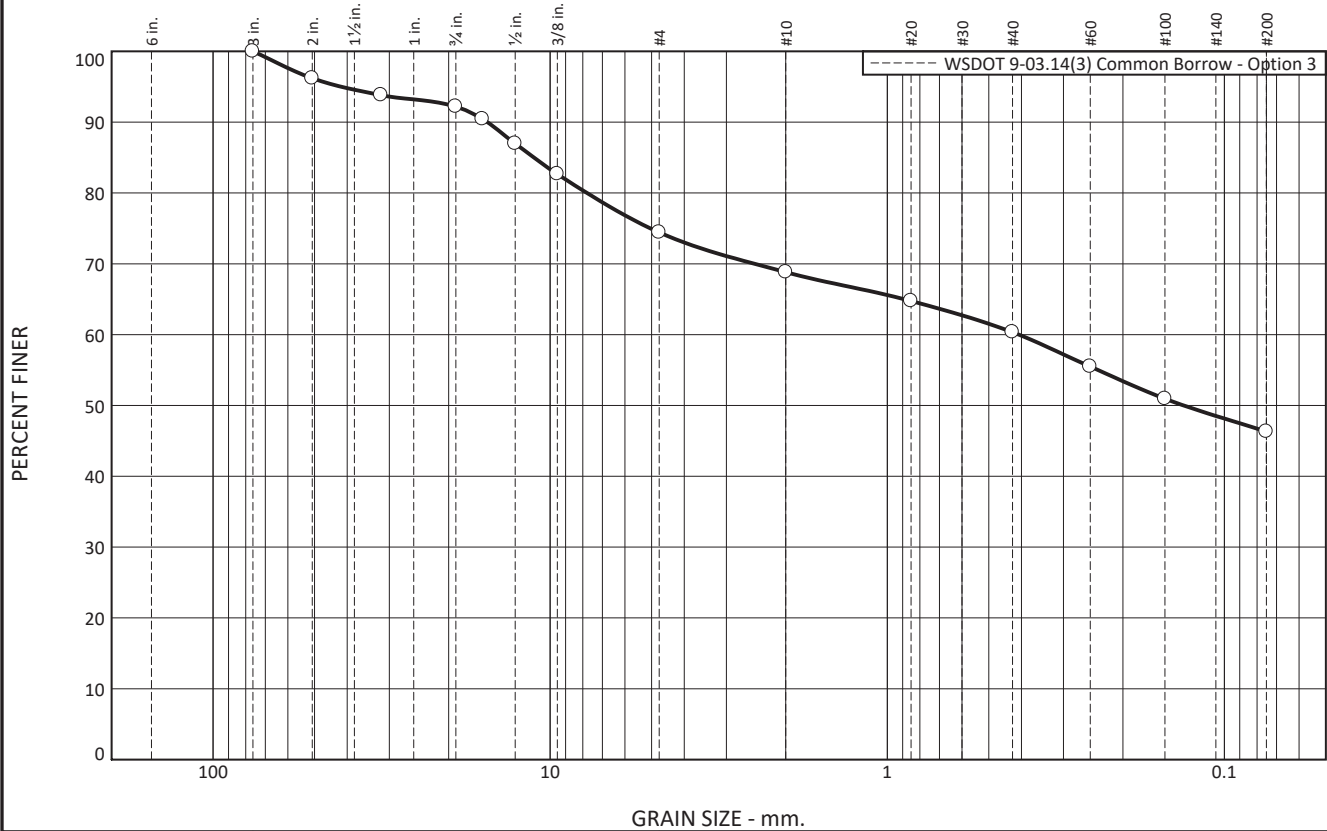


Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA
Project No: 2022-212

Figure 1

Tested By: NJ _____ Checked By: SEG _____

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines |
|-------|----------|------|--------|--------|------|---------|
| | Coarse | Fine | Coarse | Medium | Fine | |
| 0 | 8 | 18 | 5 | 9 | 14 | 46 |

| SIEVE SIZE OR DIAMETER | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---------------------------|------------------|-------------------|-----------------|
| 3" | 100 | | |
| 2" | 96 | | |
| 1-1/4" | 94 | | |
| 3/4" | 92 | | |
| 5/8" | 90 | | |
| 1/2" | 87 | | |
| 3/8" | 83 | | |
| #4 | 74 | | |
| #10 | 69 | | |
| #20 | 65 | | |
| #40 | 60 | | |
| #60 | 55 | | |
| #100 | 51 | | |
| #200 | 46 | 35-100 | |

Soil Description

Very dark brown, silty SAND with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 15.3551 D₈₅= 11.1755 D₆₀= 0.4071
D₅₀= 0.1321 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

Natural Moisture: 31.3%

* WSDOT 9-03.14(3) Common Borrow - Option 3

Source of Sample: Green Diamond
Sample Number: S-1

Date: 12/19/2022

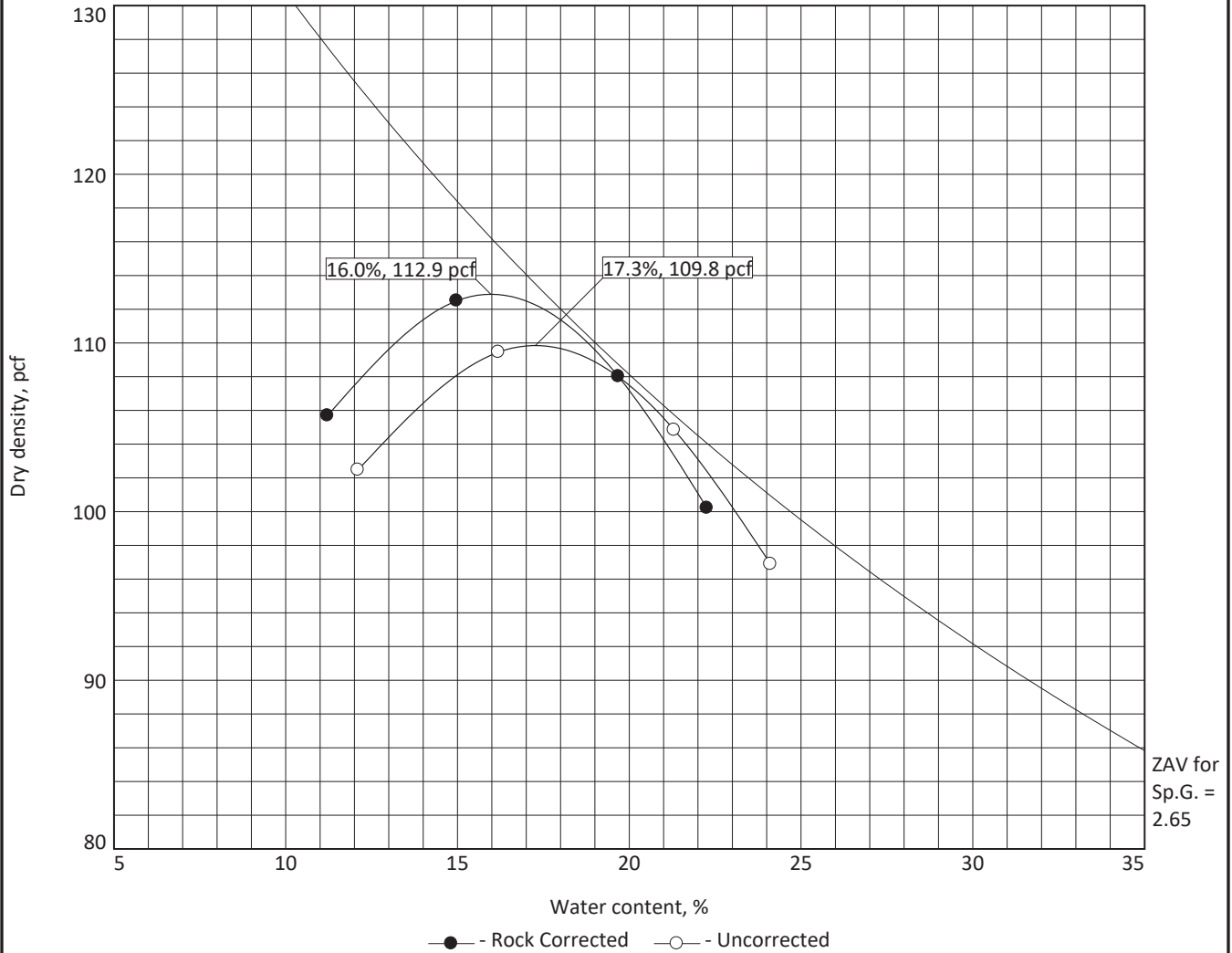


Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA
Project No: 2022-212

Figure 2

Tested By: NJ _____ Checked By: SEG _____

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
 ASTM D4718-15 Oversize Corr. Applied to Each Test Point

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > 3/4 in. | % < No.200 |
|----------------|----------------|--------|----------------|-------|----|----|----------------|---------------|
| | USCS | AASHTO | | | | | | |
| | SM | | 31.3 | 2.65 | | | 8 | 46 |

| ROCK CORRECTED TEST RESULTS | UNCORRECTED | MATERIAL DESCRIPTION |
|--|---------------------|---|
| Maximum dry density = 112.9 pcf Optimum moisture = 16.0 % | 109.8 pcf 17.3 % | Very dark brown, silty SAND with gravel |

| | |
|---|---|
| Project No. 2022-212 Client: Brumfield Construction, Inc. Project: C Street Landfill Shelton, WA Date: 1/5/2023 ○ Source of Sample: Green Diamond Sample Number: S-1 | Remarks: Specific Gravity Assumed |
|---|---|



Figure 4

Tested By: KN/NJ Checked By: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



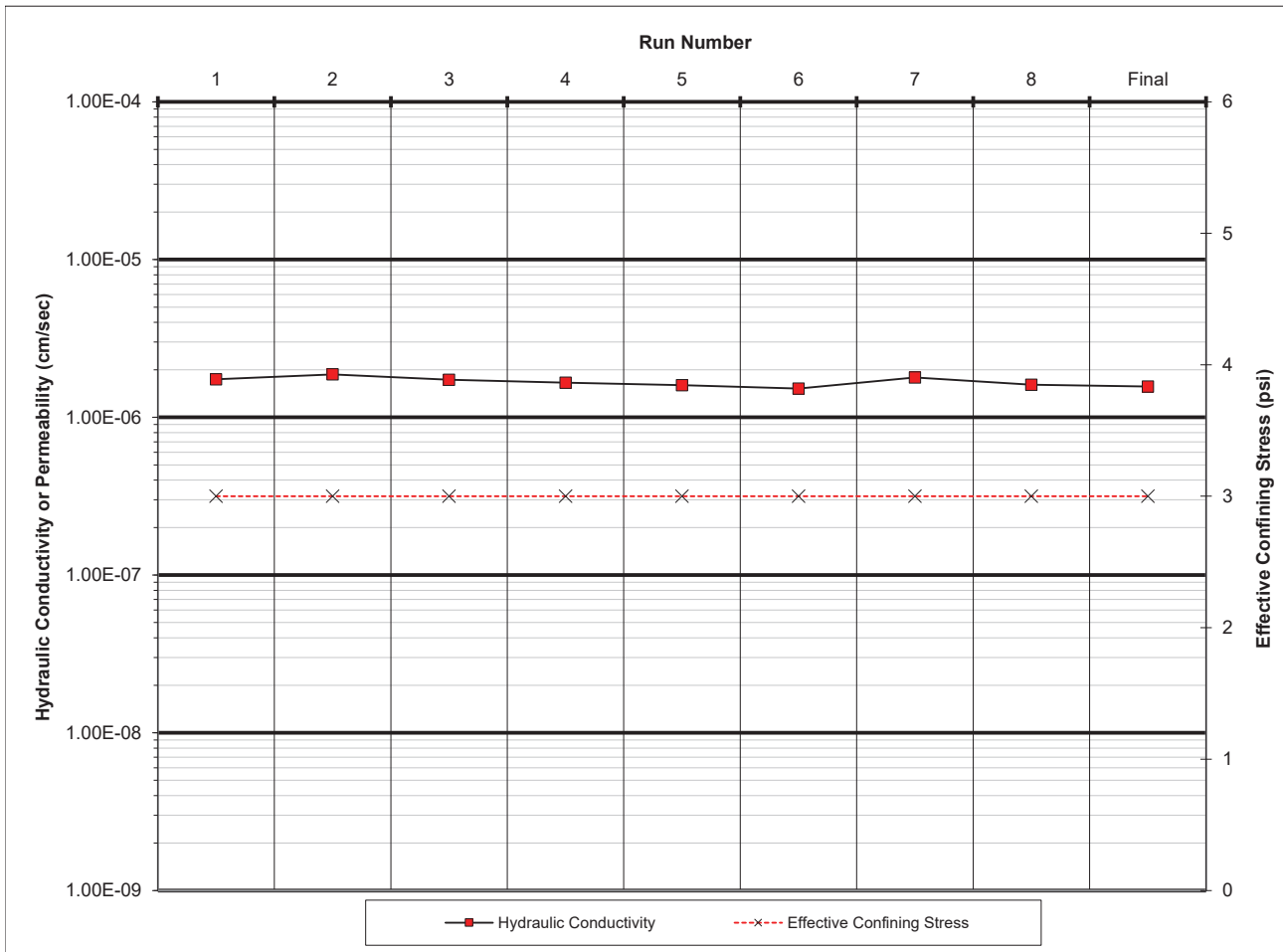
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/12/2023
Technician AH
Sample point Delphi
Sample number S-1
Sample depth 0
Sample description Dark reddish-brown, silty GRAVEL with sand

Assumed Specific Gravity 2.65
 Initial Sample Area (cm²) 80.87
 Initial Sample Length (cm) 11.69
 Initial Sample Volume (cc) 945.2
 Initial moisture (%) 13.9
 Initial wet unit wt. (pcf) 128.3
 Initial dry unit wt. (pcf) 112.7
 Initial void ratio 0.467
 Initial porosity 0.319
 Initial saturation (%) 78.7

Final Sample Area (cm²) 80.64
 Final Sample Length (cm) 11.70
 Final Sample Volume (cc) 943.2
 Final moisture (%) 17.9
 Final wet unit weight (pcf) 131.8
 Final dry unit weight (pcf) 111.8
 Final void ratio 0.479
 Final porosity 0.324
 Final saturation (%) 99.0

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 1.7E-06 | n.a. | | 0.94 | 3 | Maximum Gradient 13.0 |
| 2 | 1.9E-06 | n.a. | | 0.93 | 3 | |
| 3 | 1.7E-06 | n.a. | | 0.97 | 3 | Minimum Gradient 8.9 |
| 4 | 1.7E-06 | 1.8E-06 | 6.9% | 0.92 | 3 | |
| 5 | 1.6E-06 | 1.7E-06 | 9.1% | 0.93 | 3 | Max. Back Pressure (psi) 16.0 |
| 6 | 1.5E-06 | 1.6E-06 | 6.5% | 0.96 | 3 | |
| 7 | 1.8E-06 | 1.6E-06 | 8.9% | 1.03 | 3 | Min. Back Pressure (psi) 16.0 |
| 8 | 1.6E-06 | 1.6E-06 | 9.7% | 0.97 | 3 | |
| Final | 1.6E-06 | 1.6E-06 | 10.2% | 0.92 | 3 | |



Checked by: SEG

Hydraulic Conductivity Test Report

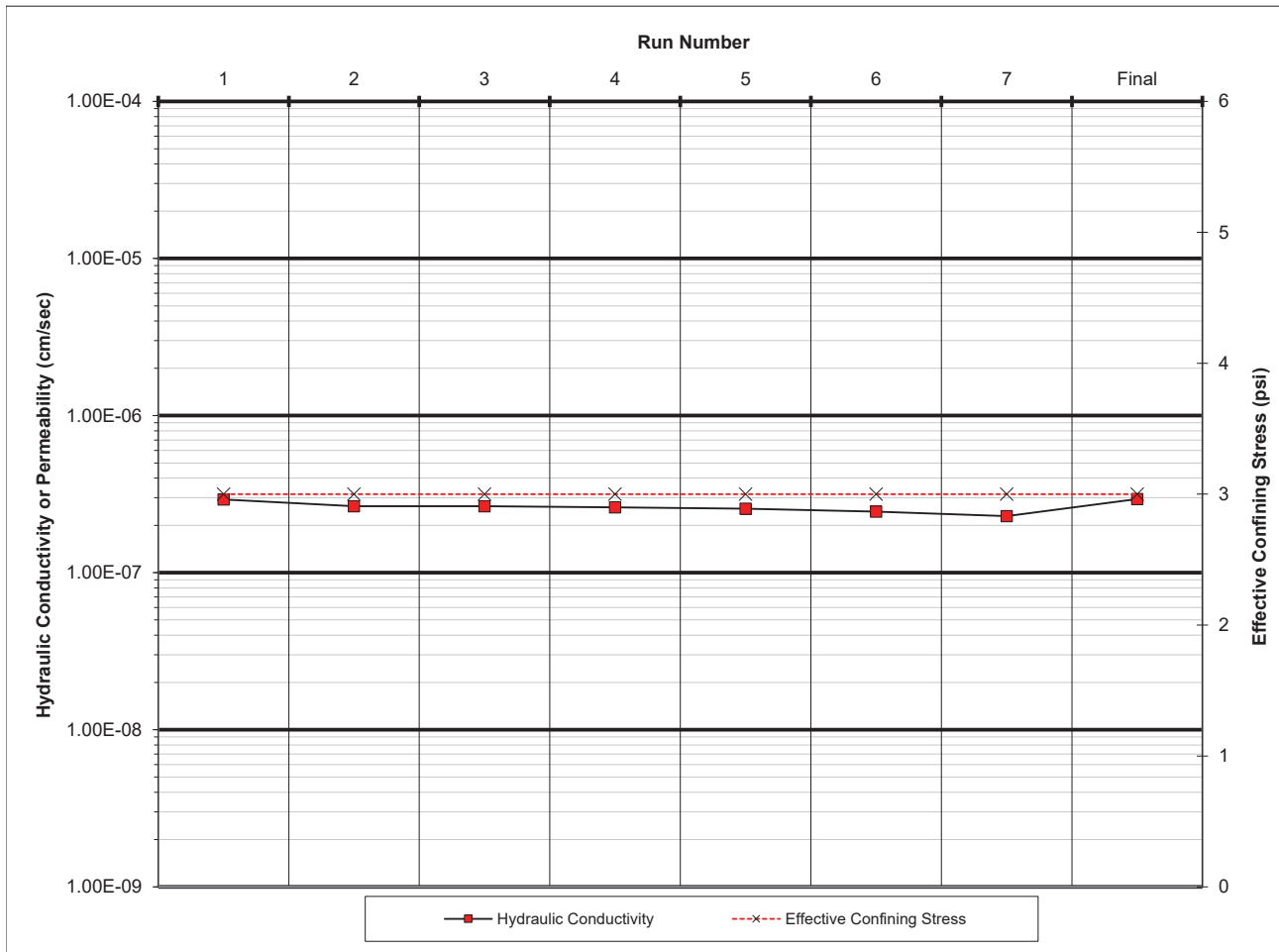
Method ASTM D 5084



HWA GEOSCIENCES INC.

| | | | | | |
|---------------------------|--|----------------------------|-------|-----------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.65 | Final Sample Area (cm2) | 81.29 |
| Client | Brumfield Construction Inc. | Initial Sample Area (cm2) | 80.86 | Final Sample Length (cm) | 11.74 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.74 | Final Sample Volume (cc) | 954.2 |
| Date | 1/18/2023 | Initial Sample Volume (cc) | 949.0 | Final moisture (%) | 16.2 |
| Technician | AH | Initial moisture (%) | 15.3 | Final wet unit weight (pcf) | 135.7 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 135.3 | Final dry unit weight (pcf) | 116.8 |
| Sample number | S-1 | Initial dry unit wt. (pcf) | 117.4 | Final void ratio | 0.416 |
| Sample depth | 0 | Initial void ratio | 0.409 | Final porosity | 0.294 |
| Sample description | Dark reddish-brown, silty GRAVEL with sand | Initial porosity | 0.290 | Final saturation (%) | 103.1 |
| | | Initial saturation (%) | 99.1 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 2.9E-07 | n.a. | | 1.00 | 3 | Maximum Gradient 13.0 |
| 2 | 2.6E-07 | n.a. | | 0.90 | 3 | Minimum Gradient 10.0 |
| 3 | 2.7E-07 | n.a. | | 0.95 | 3 | Max. Back Pressure (psi) 16.0 |
| 4 | 2.6E-07 | 2.7E-07 | 8.1% | 0.93 | 3 | Min. Back Pressure (psi) 16.0 |
| 5 | 2.6E-07 | 2.6E-07 | 2.3% | 0.89 | 3 | |
| 6 | 2.5E-07 | 2.6E-07 | 4.5% | 0.96 | 3 | |
| 7 | 2.3E-07 | 2.5E-07 | 7.4% | 0.91 | 3 | |
| Final | 2.9E-07 | 2.6E-07 | 15.0% | 0.97 | 3 | |



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



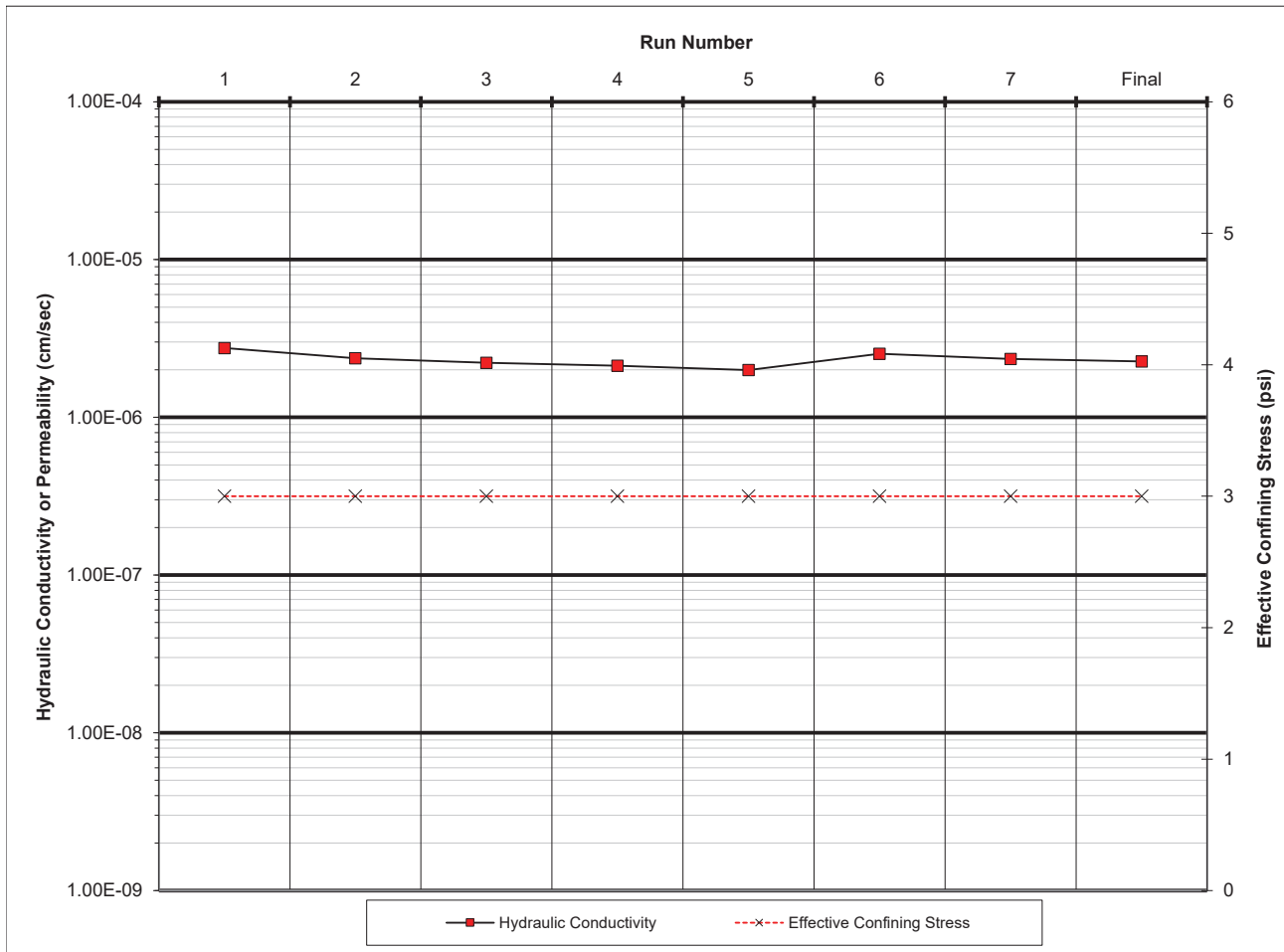
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/12/2023
Technician AH
Sample point Green Diamond
Sample number S-1
Sample depth 0
Sample description Very dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
 Initial Sample Area (cm²) 80.65
 Initial Sample Length (cm) 11.63
 Initial Sample Volume (cc) 938.3
 Initial moisture (%) 19.8
 Initial wet unit wt. (pcf) 118.8
 Initial dry unit wt. (pcf) 99.2
 Initial void ratio 0.667
 Initial porosity 0.400
 Initial saturation (%) 78.6

Final Sample Area (cm²) 82.42
 Final Sample Length (cm) 11.71
 Final Sample Volume (cc) 965.4
 Final moisture (%) 25.3
 Final wet unit weight (pcf) 121.6
 Final dry unit weight (pcf) 97.1
 Final void ratio 0.703
 Final porosity 0.413
 Final saturation (%) 95.3

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 2.8E-06 | n.a. | | 0.86 | 3 | Maximum Gradient |
| 2 | 2.4E-06 | n.a. | | 0.92 | 3 | 13.0 |
| 3 | 2.2E-06 | n.a. | | 0.90 | 3 | Minimum Gradient |
| 4 | 2.1E-06 | 2.4E-06 | 16.3% | 0.89 | 3 | 9.1 |
| 5 | 2.0E-06 | 2.2E-06 | 8.9% | 0.86 | 3 | Max. Back Pressure (psi) |
| 6 | 2.5E-06 | 2.2E-06 | 14.2% | 0.92 | 3 | 16.0 |
| 7 | 2.3E-06 | 2.2E-06 | 12.6% | 0.90 | 3 | Min. Back Pressure (psi) |
| Final | 2.3E-06 | 2.3E-06 | 12.7% | 0.89 | 3 | 16.0 |



Checked by: SEG

FIGURE: 7

Hydraulic Conductivity Test Report

Method ASTM D 5084



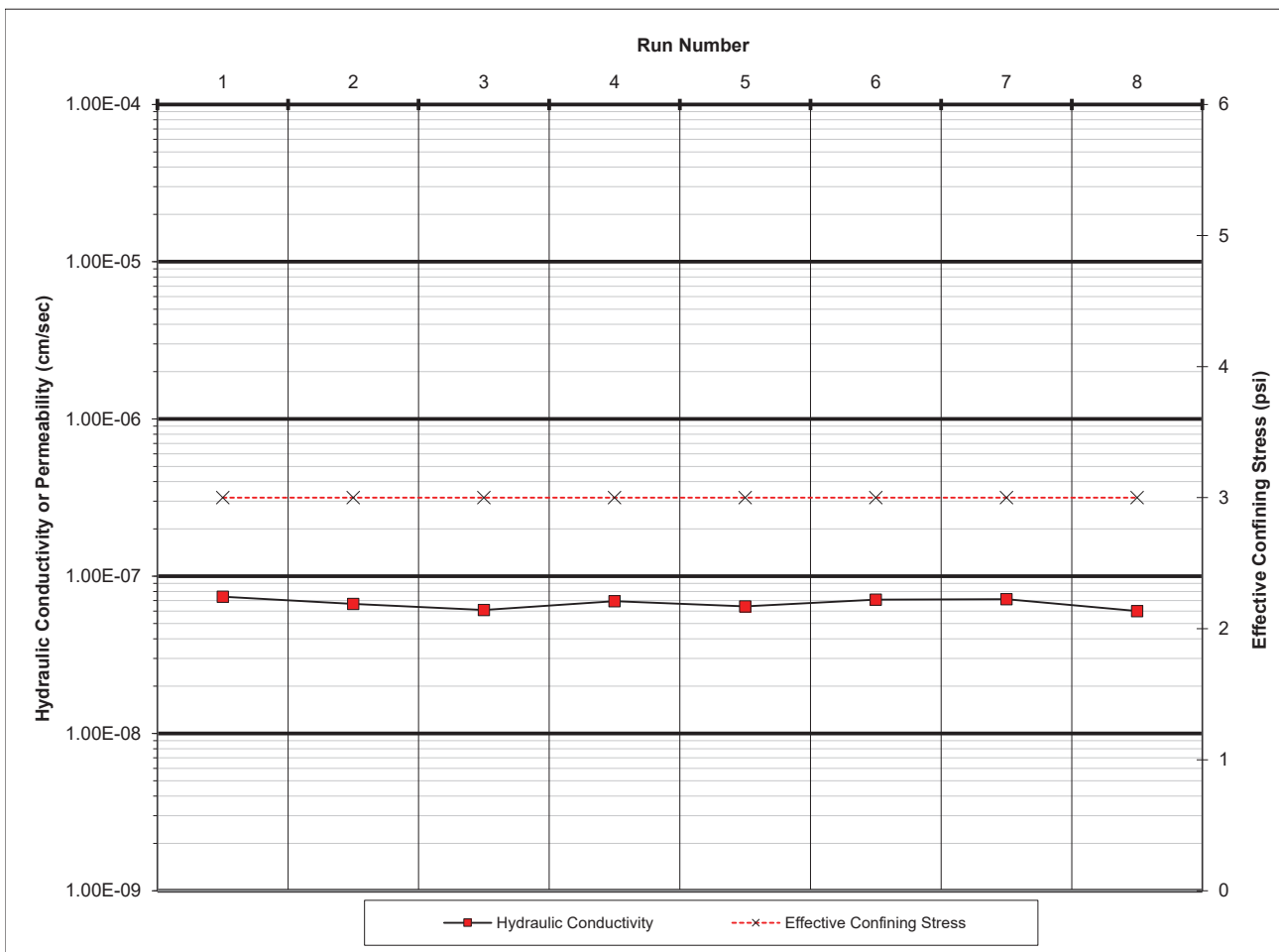
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/18/2023
Technician AH
Sample point Green Diamond
Sample number S-1
Sample depth 0
Sample description Very dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
Initial Sample Area (cm²) 81.11
Initial Sample Length (cm) 11.73
Initial Sample Volume (cc) 951.5
Initial moisture (%) 19.8
Initial wet unit wt. (pcf) 123.9
Initial dry unit wt. (pcf) 103.4
Initial void ratio 0.599
Initial porosity 0.374
Initial saturation (%) 87.5

Final Sample Area (cm²) 82.23
Final Sample Length (cm) 11.79
Final Sample Volume (cc) 969.6
Final moisture (%) 23.5
Final wet unit weight (pcf) 124.7
Final dry unit weight (pcf) 100.9
Final void ratio 0.638
Final porosity 0.390
Final saturation (%) 97.6

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 7.4E-08 | n.a. | | 1.00 | 3 | Maximum Gradient 12.9 |
| 2 | 6.7E-08 | n.a. | | 0.87 | 3 | |
| 3 | 6.1E-08 | n.a. | | 0.80 | 3 | Minimum Gradient 12.2 |
| 4 | 6.9E-08 | 6.8E-08 | 10.1% | 1.00 | 3 | |
| 5 | 6.4E-08 | 6.5E-08 | 6.7% | 0.87 | 3 | Max. Back Pressure (psi) 16.0 |
| 6 | 7.1E-08 | 6.6E-08 | 8.2% | 0.78 | 3 | |
| 7 | 7.2E-08 | 6.9E-08 | 7.0% | 1.00 | 3 | Min. Back Pressure (psi) 16.0 |
| 8 | 6.0E-08 | 6.7E-08 | 10.0% | 1.00 | 3 | |
| Final | 7.2E-08 | 6.9E-08 | 12.5% | 1.00 | 3 | |



Checked by: SEG



May 22, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.
2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figure and following table. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Nine samples were delivered to our laboratory on May 8 and May 11, 2023 by Brumfield Construction personnel. The samples were contained in nine 5-gallon buckets (one bucket per sample). The sample identifications were designated by lab personnel. The natural moisture content was obtained for each sample and oversize material was scalped off to classify oversize particles. The samples were identified using visual-manual classification and are listed in the table below:

| Sample ID | Classification | Moisture Content % | % Retained on 3/4" |
|-----------|--|--------------------|--------------------|
| S-1 | Dark yellowish-brown, silty SAND with gravel | 23.8 | 12 |
| S-2 | Dark brown, silty SAND with gravel | 21.9 | 16 |
| S-3 | Dark brown, silty SAND with gravel | 18.8 | 26 |
| S-4 | Dark brown, silty SAND with gravel | 19.0 | 13 |

| Sample ID | Classification | Moisture Content | % Retained on 3/4" |
|------------------|--|-------------------------|---------------------------|
| S-5 | Dark brown, silty SAND with gravel | 15.2 | 19 |
| S-6 | Dark brown, silty SAND with gravel | 21.9 | 15 |
| S-7 | Dark brown, silty GRAVEL with sand and cobbles | 16.1 | 39 |
| S-8 | Dark brown, silty GRAVEL with sand and cobbles | 14.5 | 53 |
| S-9 | Dark brown, silty GRAVEL with sand and cobbles | 17.0 | 47 |

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. All of the samples delivered were split down to representative portions that were then recombined to produce a composite test sample. The test was performed on the portion of the sample passing 3/4", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the average amount of over-sized material on all samples using method ASTM D4718. The test results are summarized on the attached Compaction Test report, Figure 1.



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

A handwritten signature in blue ink that reads "Alex Hodges".

Alex Hodges
Materials Laboratory Supervisor

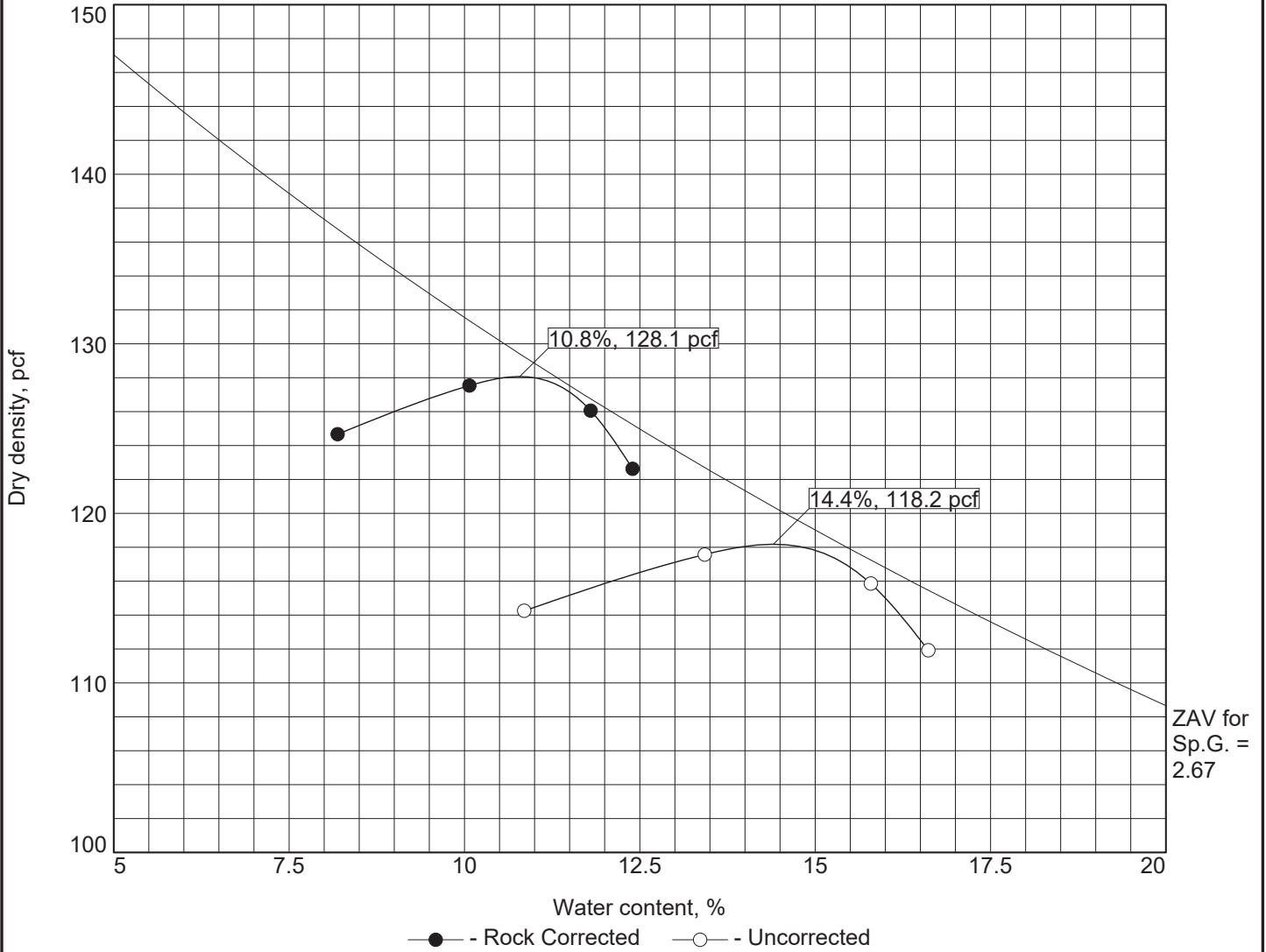
A handwritten signature in blue ink that reads "Steven E. Greene".

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

Figure 1 Compaction Test Report

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
 ASTM D4718-15 Oversize Corr. Applied to Each Test Point

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > 3/4 in. | % < No.200 |
|----------------|----------------|--------|----------------|-------|----|----|----------------|---------------|
| | USCS | AASHTO | | | | | | |
| | SM | | 18.7 | 2.67 | | | 27 | |

| ROCK CORRECTED TEST RESULTS | UNCORRECTED | MATERIAL DESCRIPTION |
|---------------------------------|-------------|--|
| Maximum dry density = 128.1 pcf | 118.2 pcf | Dark brown, silty SAND with gravel and cobbles |
| Optimum moisture = 10.8 % | 14.4 % | |

Project No. 2022-212 **Client:** Brumfield Construction, Inc.
Project: C Street Landfill
 Shelton, WA **Date:** 5/15/2023
 ○ **Source of Sample:** Delphi **Sample Number:** Composite

Remarks:
 Specific Gravity Assumed



Figure 1

Tested By: NJ **Checked By:** SEG



May 26, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.
2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figures and following Tables. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Nine samples were delivered to our laboratory on May 8 and May 11, 2023 by Brumfield Construction personnel. The samples were contained in nine 5-gallon buckets (one bucket per sample). The sample identifications were designated by lab personnel. The natural moisture content was obtained for each sample and oversize material (+3/4”) was scalped off to classify oversize particles. The samples were identified using visual-manual classification and are listed in Table 1 below:

Table 1 – Sample Characteristics

| Sample | Classification | Moisture Content % | % Retained on 3/4” |
|---------------|--|---------------------------|---------------------------|
| S-1 | Dark yellowish-brown, silty SAND with gravel | 23.8 | 12 |
| S-2 | Dark brown, silty SAND with gravel | 21.9 | 16 |
| S-3 | Dark brown, silty SAND with gravel | 18.8 | 26 |

| Sample | Classification | Moisture Content % | % Retained on ¾" |
|--------|--|--------------------|------------------|
| S-4 | Dark brown, silty SAND with gravel | 19.0 | 13 |
| S-5 | Dark brown, silty SAND with gravel | 15.2 | 19 |
| S-6 | Dark brown, silty SAND with gravel | 21.9 | 15 |
| S-7 | Dark brown, silty GRAVEL with sand and cobbles | 16.1 | 39 |
| S-8 | Dark brown, silty GRAVEL with sand and cobbles | 14.5 | 53 |
| S-9 | Dark brown, silty GRAVEL with sand and cobbles | 17.0 | 47 |

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. All of the samples delivered were split down to representative portions that were then recombined to produce a composite test sample. The test was performed on the portion of the sample passing ¾", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the average amount of over-sized material on all samples using method ASTM D4718. The test results are summarized on the attached Compaction Test report, Figure 1.

HYDRAULIC CONDUCTIVITY OF SOIL (FLEXI-WALL TRIAXIAL CHAMBER METHOD): The hydraulic conductivity (also commonly referred to as coefficient of permeability) of the samples was measured in general accordance with method ASTM D5084. Testing was conducted on the minus ¾-inch fraction of each sample remolded to a target density of 95% of the uncorrected maximum dry density determined for the composite sample at approximately optimum moisture content. Test samples were de-molded and weighed prior to placement within a flexible membrane within a triaxial pressure chamber. An effective confining pressure of 3 psi was applied. Testing was conducted until inflow was approximately equal to outflow and the hydraulic conductivity was essentially steady. A summary of the results is presented below in Table 2. The test results are presented in detail on the attached Hydraulic Conductivity Test Report, Figures 2 through 10.

Table 2 - Hydraulic Conductivity Test Results

| Sample | % Relative Compaction Uncorrected (D1557) | Dry Unit Weight (pcf) | Remolded Moisture Content | Hydraulic Conductivity |
|---------------|--|------------------------------|----------------------------------|-----------------------------------|
| S-1 | 95.4 | 112.8 | 17.3 % | 3.7 x 10⁻⁸ cm/s |
| S-2 | 95.3 | 112.6 | 16.7 % | 5.2 x 10⁻⁸ cm/s |
| S-3 | 95.1 | 112.4 | 15.7 % | 6.4 x 10⁻⁸ cm/s |
| S-4 | 95.2 | 112.5 | 15.5 % | 5.6 x 10⁻⁸ cm/s |
| S-5 | 95.8 | 113.2 | 14.0 % | 2.6 x 10⁻⁷ cm/s |
| S-6 | 95.1 | 112.4 | 14.7 % | 4.4 x 10⁻⁸ cm/s |
| S-7 | 95.3 | 112.6 | 16.3 % | 1.1 x 10⁻⁷ cm/s |
| S-8 | 95.6 | 113.0 | 16.0 % | 4.3 x 10⁻⁷ cm/s |
| S-9 | 95.2 | 112.5 | 16.4 % | 2.3 x 10⁻⁷ cm/s |



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

Handwritten signature of Alexander Hodges in black ink.

Alex Hodges
Materials Laboratory Supervisor

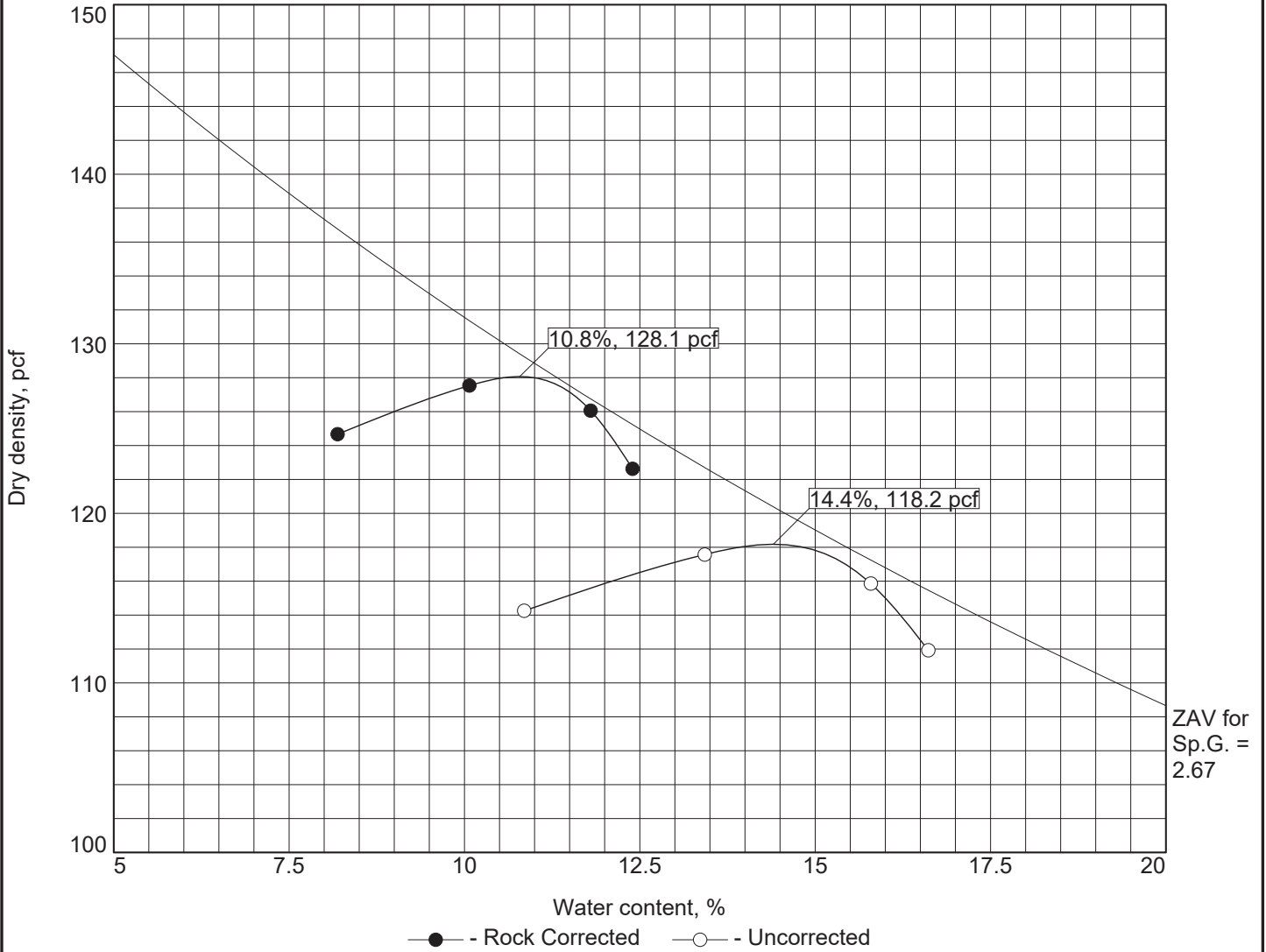
Handwritten signature of Steven E. Greene in black ink.

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

| | |
|--------------|------------------------------------|
| Figure 1 | Compaction Test Report |
| Figures 2-10 | Hydraulic Conductivity Test Report |

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
 ASTM D4718-15 Oversize Corr. Applied to Each Test Point

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > 3/4 in. | % < No.200 |
|----------------|----------------|--------|----------------|-------|----|----|----------------|---------------|
| | USCS | AASHTO | | | | | | |
| | SM | | 18.7 | 2.67 | | | 27 | |

| ROCK CORRECTED TEST RESULTS | UNCORRECTED | MATERIAL DESCRIPTION |
|---------------------------------|-------------|--|
| Maximum dry density = 128.1 pcf | 118.2 pcf | Dark brown, silty SAND with gravel and cobbles |
| Optimum moisture = 10.8 % | 14.4 % | |

Project No. 2022-212 **Client:** Brumfield Construction, Inc.
Project: C Street Landfill
 Shelton, WA **Date:** 5/15/2023
 ○ **Source of Sample:** Delphi **Sample Number:** Composite

Remarks:
 Specific Gravity Assumed



Figure 1

Tested By: NJ **Checked By:** SEG

Hydraulic Conductivity Test Report

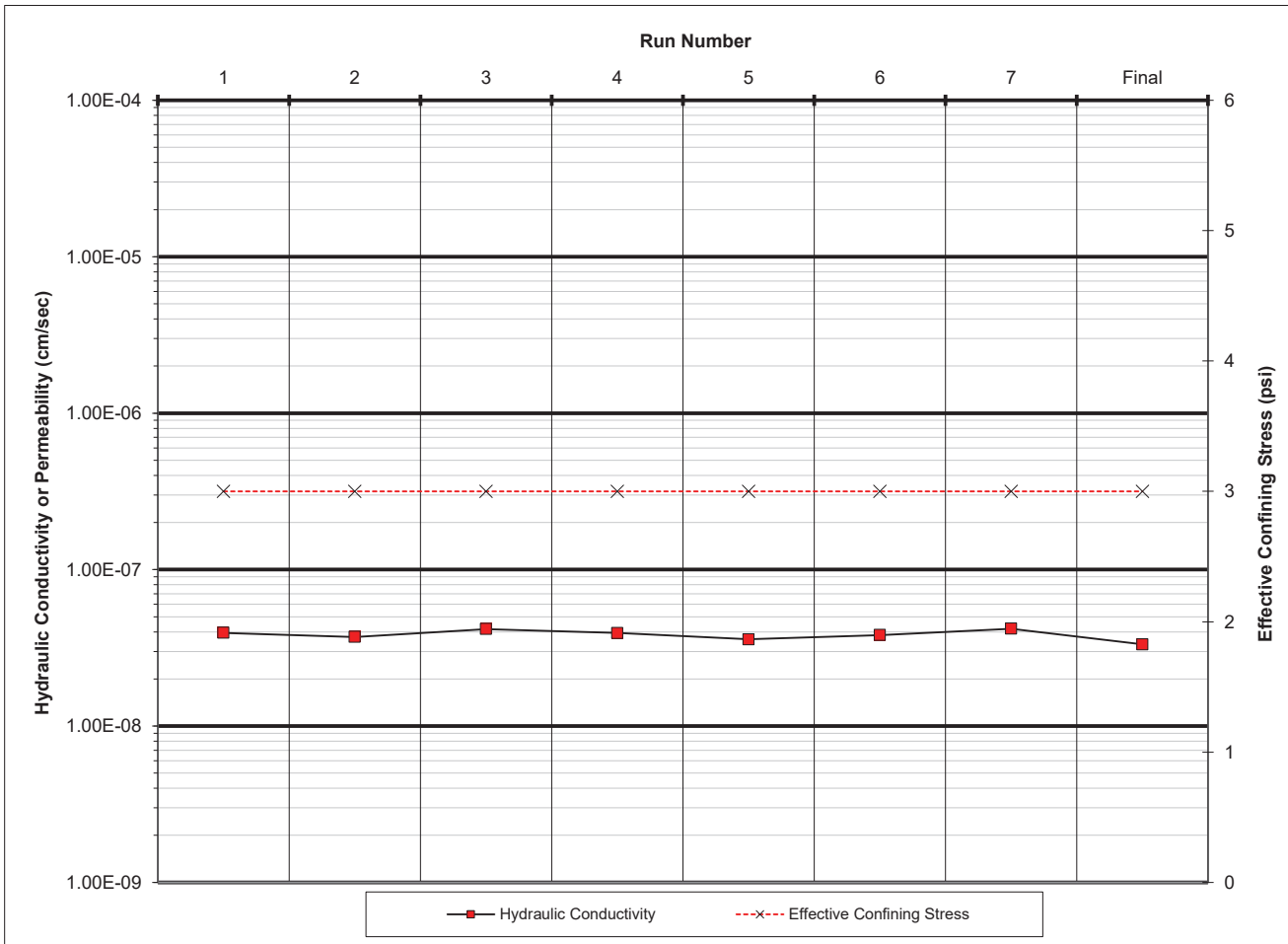
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|--|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 81.68 |
| Client | Brumfield Construction Inc. | Initial Sample Area (cm ²) | 81.17 | Final Sample Length (cm) | 11.73 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.66 | Final Sample Volume (cc) | 958.5 |
| Date | 5/23/2023 | Initial Sample Volume (cc) | 946.7 | Final moisture (%) | 20.9 |
| Technician | AH | Initial moisture (%) | 17.3 | Final wet unit weight (pcf) | 131.5 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 132.3 | Final dry unit weight (pcf) | 108.8 |
| Sample number | S-1 | Initial dry unit wt. (pcf) | 112.8 | Final void ratio | 0.532 |
| Sample depth | 0 | Initial void ratio | 0.477 | Final porosity | 0.347 |
| Sample description | Dark yellowish-brown, silty SAND with gravel | Initial porosity | 0.323 | Final saturation (%) | 105.0 |
| | | Initial saturation (%) | 96.6 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 3.9E-08 | n.a. | | 0.80 | 3 | Maximum Gradient |
| 2 | 3.7E-08 | n.a. | | 0.87 | 3 | 13.0 |
| 3 | 4.2E-08 | n.a. | | 1.00 | 3 | Minimum Gradient |
| 4 | 3.9E-08 | 3.9E-08 | 5.9% | 1.00 | 3 | 12.2 |
| 5 | 3.6E-08 | 3.8E-08 | 8.4% | 1.00 | 3 | Max. Back Pressure (psi) |
| 6 | 3.8E-08 | 3.9E-08 | 7.6% | 0.86 | 3 | 16.0 |
| 7 | 4.2E-08 | 3.9E-08 | 7.9% | 1.00 | 3 | Min. Back Pressure (psi) |
| Final | 3.3E-08 | 3.7E-08 | 12.2% | 1.09 | 3 | 16.0 |



Checked by: SEG

Hydraulic Conductivity Test Report

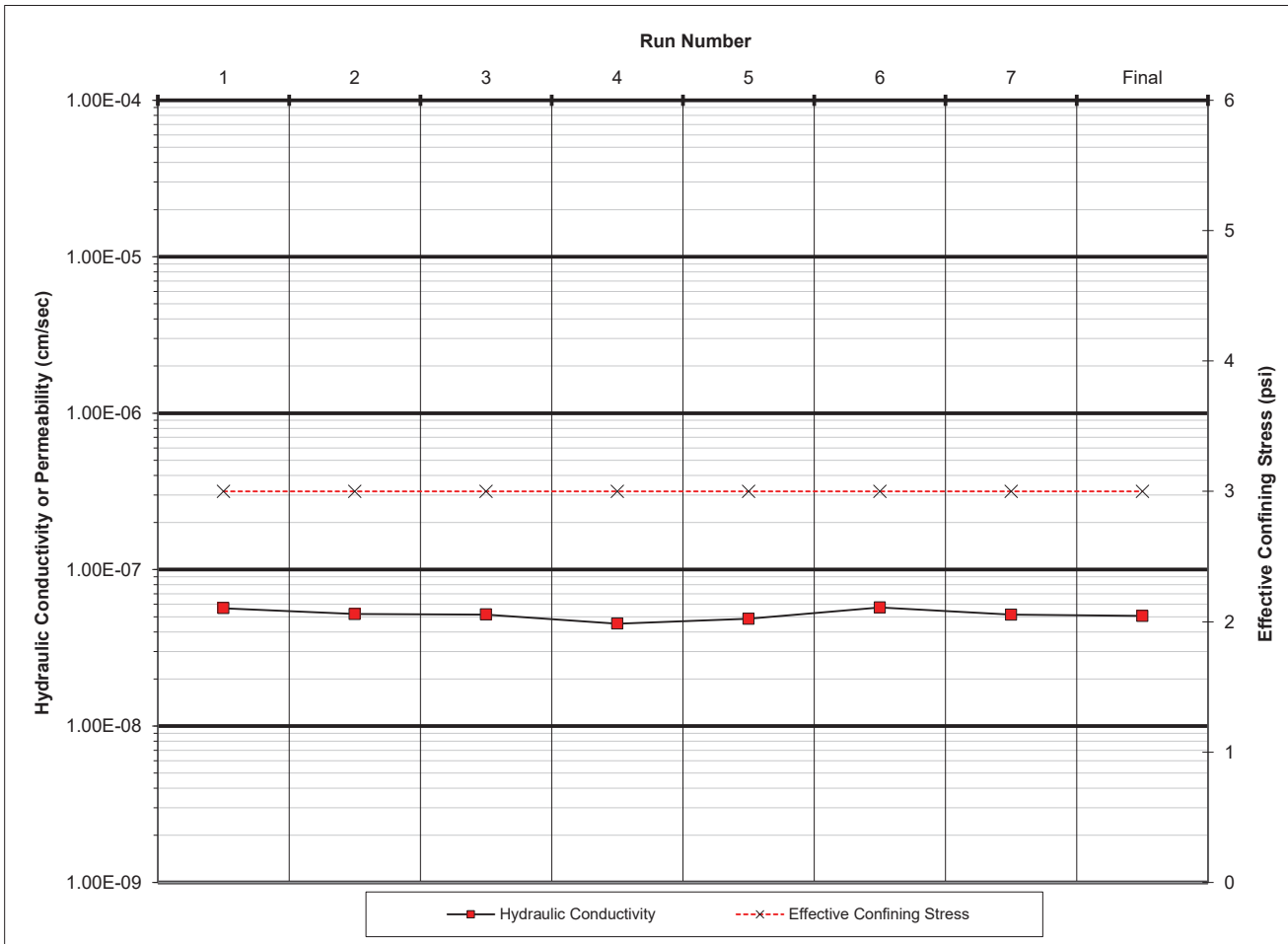
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|------------------------------------|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 81.19 |
| Client | Brumfield Construction, Inc. | Initial Sample Area (cm ²) | 80.94 | Final Sample Length (cm) | 11.79 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.68 | Final Sample Volume (cc) | 957.3 |
| Date | 5/25/2023 | Initial Sample Volume (cc) | 945.3 | Final moisture (%) | 21.8 |
| Technician | AH | Initial moisture (%) | 16.7 | Final wet unit weight (pcf) | 130.4 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 131.4 | Final dry unit weight (pcf) | 107.0 |
| Sample number | S-2 | Initial dry unit wt. (pcf) | 112.6 | Final void ratio | 0.557 |
| Sample depth | 0 | Initial void ratio | 0.479 | Final porosity | 0.358 |
| Sample description | Dark brown, silty SAND with gravel | Initial porosity | 0.324 | Final saturation (%) | 104.7 |
| | | Initial saturation (%) | 92.9 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 5.7E-08 | n.a. | | 0.75 | 3 | Maximum Gradient |
| 2 | 5.2E-08 | n.a. | | 0.77 | 3 | 12.9 |
| 3 | 5.2E-08 | n.a. | | 0.83 | 3 | Minimum Gradient |
| 4 | 4.5E-08 | 5.1E-08 | 12.2% | 1.00 | 3 | 11.9 |
| 5 | 4.8E-08 | 4.9E-08 | 8.6% | 0.91 | 3 | Max. Back Pressure (psi) |
| 6 | 5.7E-08 | 5.1E-08 | 13.1% | 1.00 | 3 | 16.0 |
| 7 | 5.1E-08 | 5.1E-08 | 13.2% | 1.00 | 3 | Min. Back Pressure (psi) |
| Final | 5.1E-08 | 5.2E-08 | 10.2% | 0.75 | 3 | 16.0 |



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



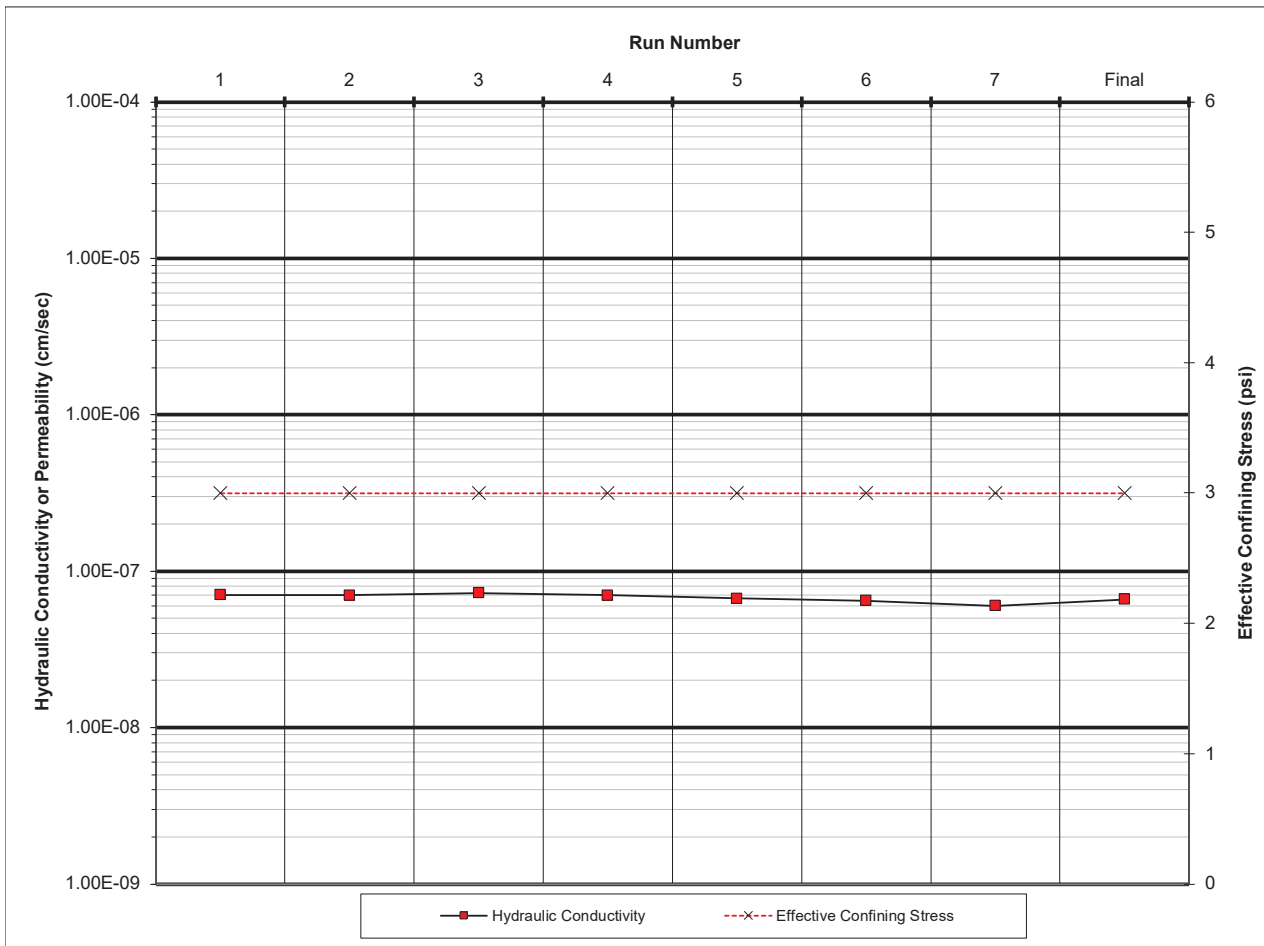
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction, Inc.
Project number 2022-212
Date 5/25/2023
Technician AH
Sample point Delphi
Sample number S-3
Sample depth 0
Sample description Dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
 Initial Sample Area (cm²) 81.06
 Initial Sample Length (cm) 11.77
 Initial Sample Volume (cc) 954.0
 Initial moisture (%) 15.7
 Initial wet unit wt. (pcf) 130.1
 Initial dry unit wt. (pcf) 112.4
 Initial void ratio 0.471
 Initial porosity 0.320
 Initial saturation (%) 88.4

Final Sample Area (cm²) 81.56
 Final Sample Length (cm) 11.78
 Final Sample Volume (cc) 960.4
 Final moisture (%) 18.3
 Final wet unit weight (pcf) 131.7
 Final dry unit weight (pcf) 111.3
 Final void ratio 0.485
 Final porosity 0.327
 Final saturation (%) 99.9

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 7.0E-08 | n.a. | | 0.80 | 3 | Maximum Gradient 12.9 |
| 2 | 7.0E-08 | n.a. | | 0.80 | 3 | Minimum Gradient 11.6 |
| 3 | 7.2E-08 | n.a. | | 1.00 | 3 | Max. Back Pressure (psi) 16.0 |
| 4 | 7.0E-08 | 7.1E-08 | 2.3% | 0.80 | 3 | Min. Back Pressure (psi) 16.0 |
| 5 | 6.7E-08 | 7.0E-08 | 4.2% | 0.97 | 3 | |
| 6 | 6.5E-08 | 6.9E-08 | 5.5% | 0.87 | 3 | |
| 7 | 6.0E-08 | 6.6E-08 | 7.9% | 0.79 | 3 | |
| Final | 6.6E-08 | 6.4E-08 | 6.5% | 0.86 | 3 | |



Checked by: SEG

FIGURE: 4

Hydraulic Conductivity Test Report

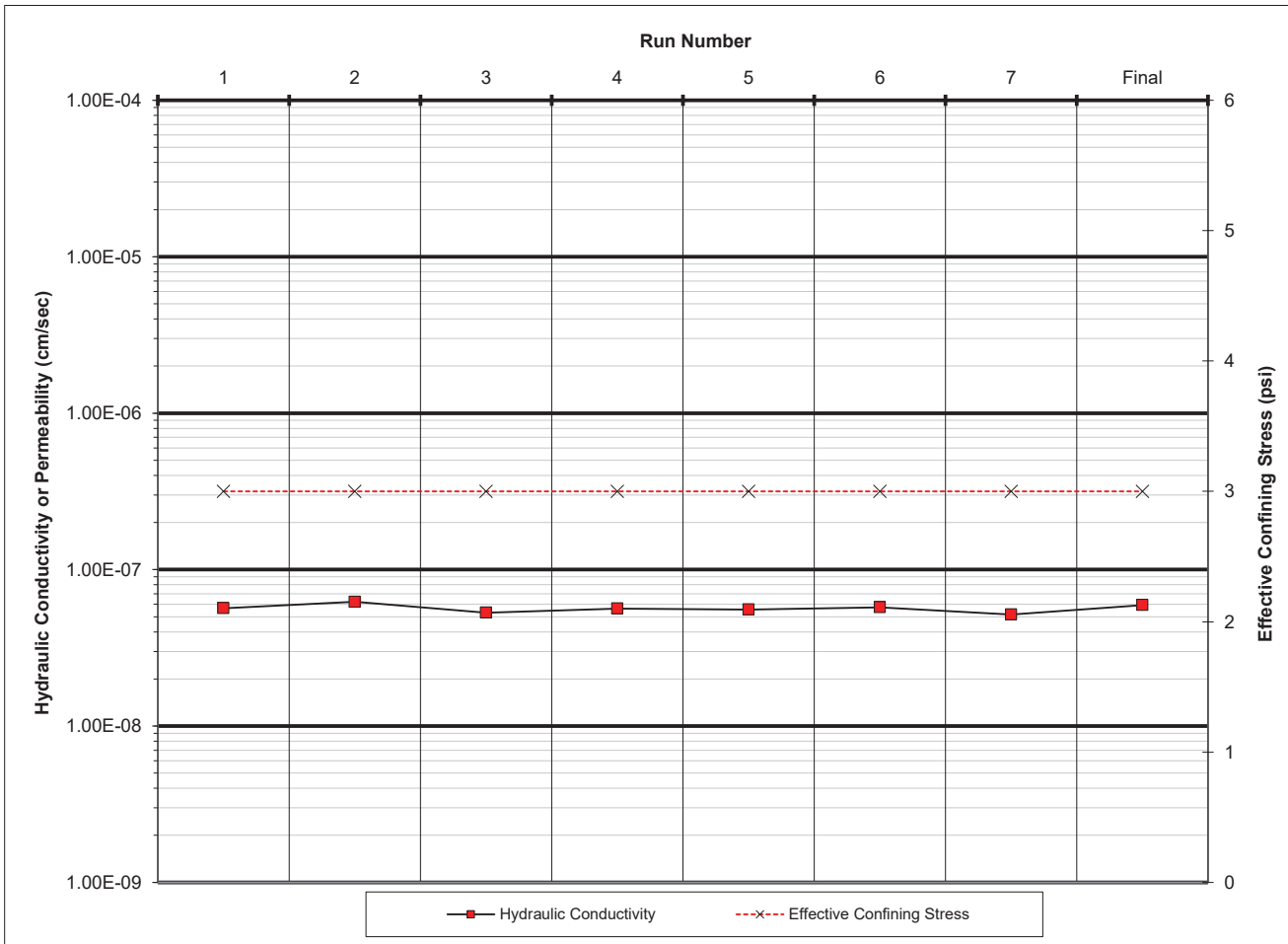
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|------------------------------------|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 81.80 |
| Client | Brumfield Construction, Inc. | Initial Sample Area (cm ²) | 81.13 | Final Sample Length (cm) | 11.82 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.80 | Final Sample Volume (cc) | 967.2 |
| Date | 5/23/2023 | Initial Sample Volume (cc) | 957.4 | Final moisture (%) | 19.1 |
| Technician | AH | Initial moisture (%) | 15.5 | Final wet unit weight (pcf) | 130.8 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 129.9 | Final dry unit weight (pcf) | 109.9 |
| Sample number | S-4 | Initial dry unit wt. (pcf) | 112.5 | Final void ratio | 0.517 |
| Sample depth | 0 | Initial void ratio | 0.481 | Final porosity | 0.341 |
| Sample description | Dark brown, silty SAND with gravel | Initial porosity | 0.325 | Final saturation (%) | 98.6 |
| | | Initial saturation (%) | 85.8 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 5.7E-08 | n.a. | | 0.80 | 3 | Maximum Gradient |
| 2 | 6.2E-08 | n.a. | | 1.00 | 3 | 12.9 |
| 3 | 5.3E-08 | n.a. | | 1.00 | 3 | Minimum Gradient |
| 4 | 5.6E-08 | 5.7E-08 | 9.1% | 1.00 | 3 | 11.0 |
| 5 | 5.6E-08 | 5.7E-08 | 9.6% | 0.92 | 3 | Max. Back Pressure (psi) |
| 6 | 5.7E-08 | 5.6E-08 | 4.6% | 0.86 | 3 | 16.0 |
| 7 | 5.2E-08 | 5.5E-08 | 6.6% | 0.79 | 3 | Min. Back Pressure (psi) |
| Final | 5.9E-08 | 5.6E-08 | 7.8% | 0.83 | 3 | 16.0 |



Checked by: SEG

Hydraulic Conductivity Test Report

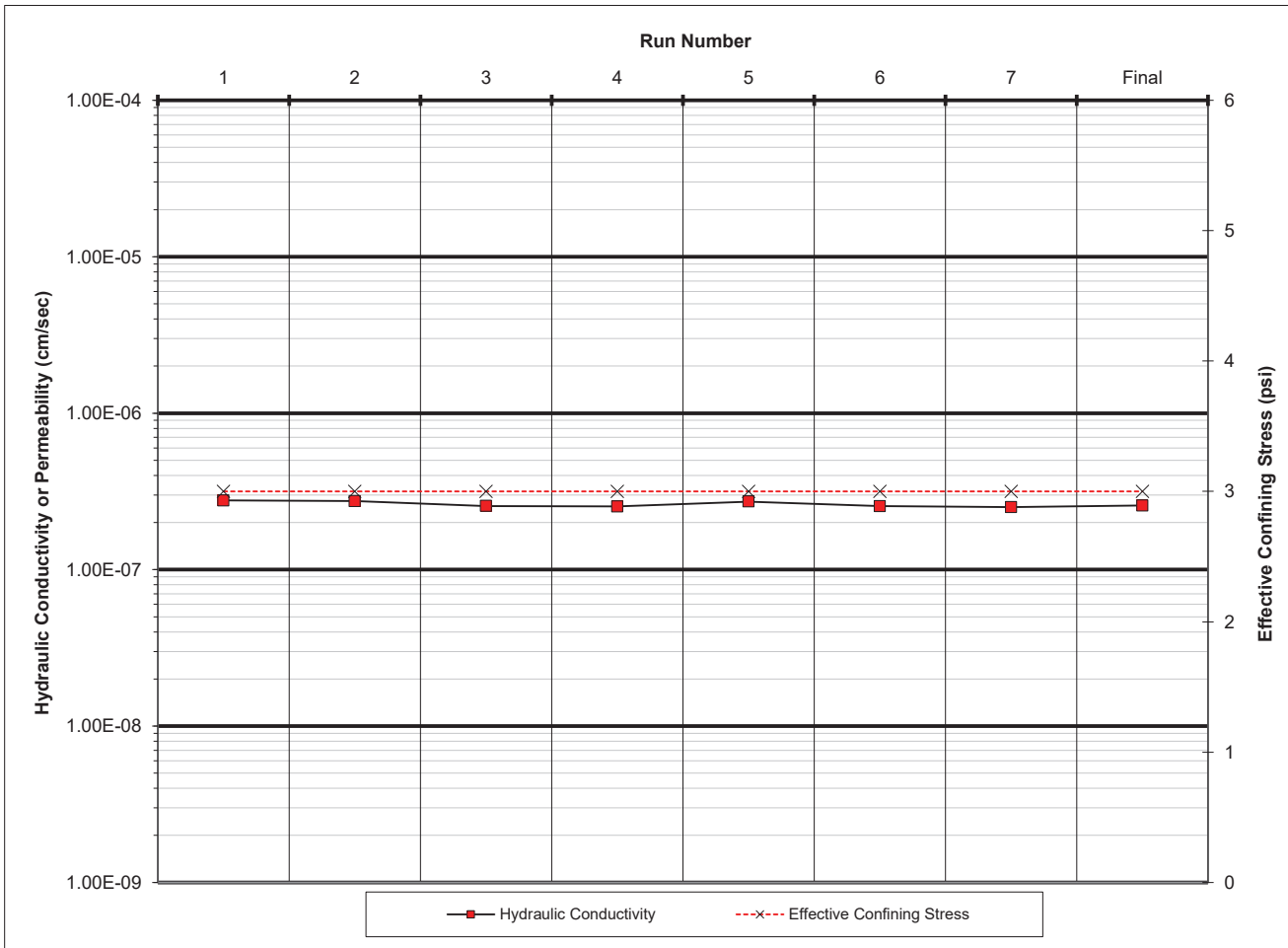
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|------------------------------------|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 82.38 |
| Client | Brumfield Construction, Inc. | Initial Sample Area (cm ²) | 81.01 | Final Sample Length (cm) | 11.74 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.70 | Final Sample Volume (cc) | 967.2 |
| Date | 5/18/2023 | Initial Sample Volume (cc) | 947.8 | Final moisture (%) | 18.5 |
| Technician | AH | Initial moisture (%) | 14.0 | Final wet unit weight (pcf) | 132.2 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 129.0 | Final dry unit weight (pcf) | 111.6 |
| Sample number | S-5 | Initial dry unit wt. (pcf) | 113.2 | Final void ratio | 0.494 |
| Sample depth | 0 | Initial void ratio | 0.472 | Final porosity | 0.330 |
| Sample description | Dark brown, silty SAND with gravel | Initial porosity | 0.321 | Final saturation (%) | 100.0 |
| | | Initial saturation (%) | 79.0 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 2.8E-07 | n.a. | | 1.00 | 3 | Maximum Gradient |
| 2 | 2.7E-07 | n.a. | | 0.95 | 3 | 13.0 |
| 3 | 2.6E-07 | n.a. | | 0.91 | 3 | Minimum Gradient |
| 4 | 2.5E-07 | 2.6E-07 | 4.6% | 0.91 | 3 | 10.7 |
| 5 | 2.7E-07 | 2.6E-07 | 4.0% | 1.00 | 3 | Max. Back Pressure (psi) |
| 6 | 2.5E-07 | 2.6E-07 | 5.2% | 0.93 | 3 | 16.0 |
| 7 | 2.5E-07 | 2.6E-07 | 5.6% | 1.00 | 3 | Min. Back Pressure (psi) |
| Final | 2.6E-07 | 2.6E-07 | 5.2% | 1.00 | 3 | 16.0 |



Checked by: SEG

Hydraulic Conductivity Test Report

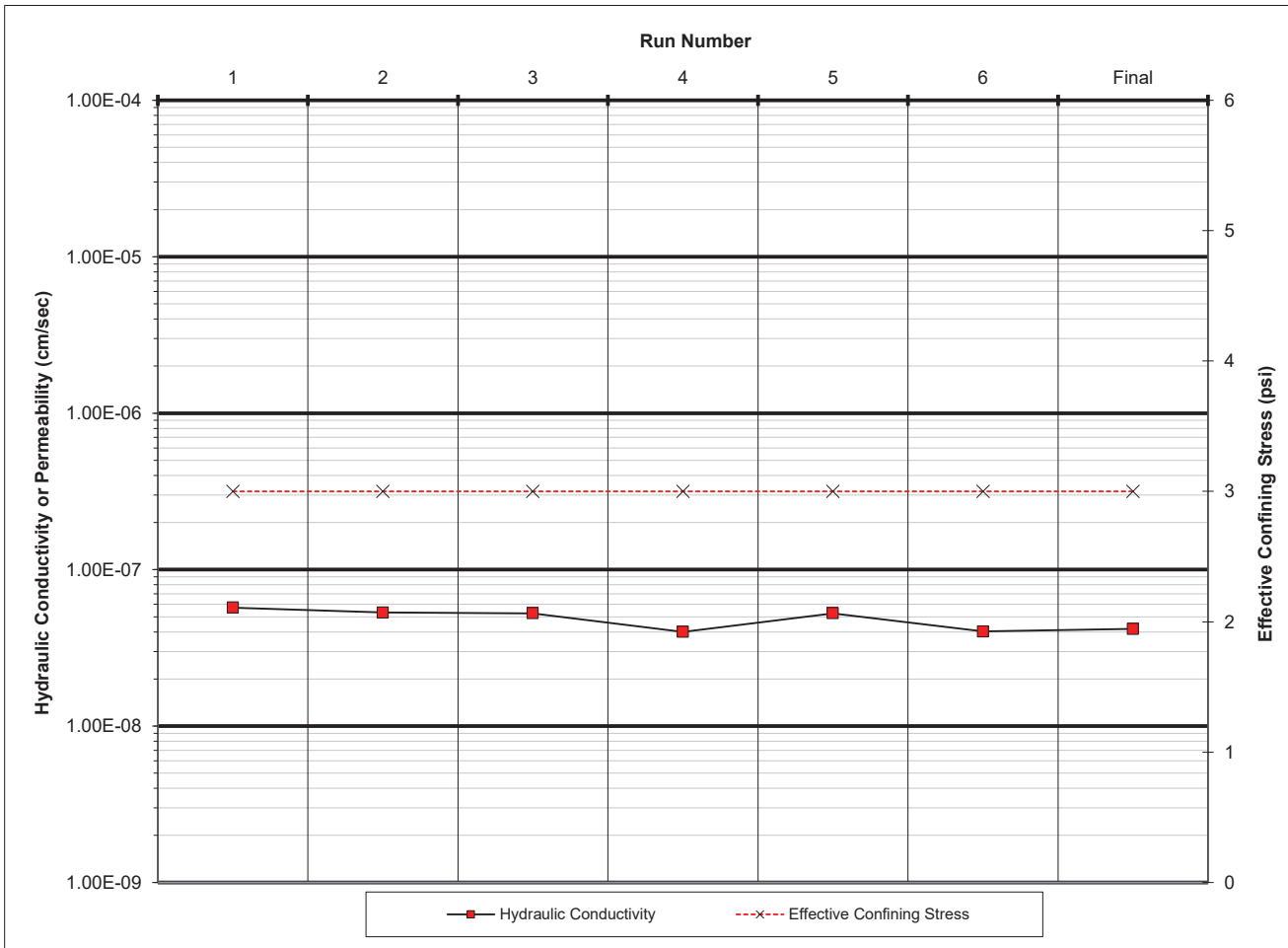
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|------------------------------------|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 82.70 |
| Client | Brumfield Construction, Inc. | Initial Sample Area (cm ²) | 81.41 | Final Sample Length (cm) | 11.85 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.69 | Final Sample Volume (cc) | 979.7 |
| Date | 5/25/2023 | Initial Sample Volume (cc) | 951.7 | Final moisture (%) | 21.2 |
| Technician | AH | Initial moisture (%) | 14.7 | Final wet unit weight (pcf) | 130.1 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 129.0 | Final dry unit weight (pcf) | 107.3 |
| Sample number | S-6 | Initial dry unit wt. (pcf) | 112.4 | Final void ratio | 0.552 |
| Sample depth | 0 | Initial void ratio | 0.482 | Final porosity | 0.356 |
| Sample description | Dark brown, silty SAND with gravel | Initial porosity | 0.325 | Final saturation (%) | 102.4 |
| | | Initial saturation (%) | 81.7 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 5.7E-08 | n.a. | | 0.80 | 3 | Maximum Gradient 12.9 |
| 2 | 5.3E-08 | n.a. | | 0.80 | 3 | Minimum Gradient 11.9 |
| 3 | 5.3E-08 | n.a. | | 1.03 | 3 | Max. Back Pressure (psi) 16.0 |
| 4 | 4.0E-08 | 5.1E-08 | 21.2% | 1.00 | 3 | Min. Back Pressure (psi) 16.0 |
| 5 | 5.3E-08 | 5.0E-08 | 19.4% | 1.00 | 3 | |
| 6 | 4.0E-08 | 4.6E-08 | 13.7% | 1.00 | 3 | |
| Final | 4.2E-08 | 4.4E-08 | 20.5% | 1.00 | 3 | |



Checked by: SEG

Hydraulic Conductivity Test Report

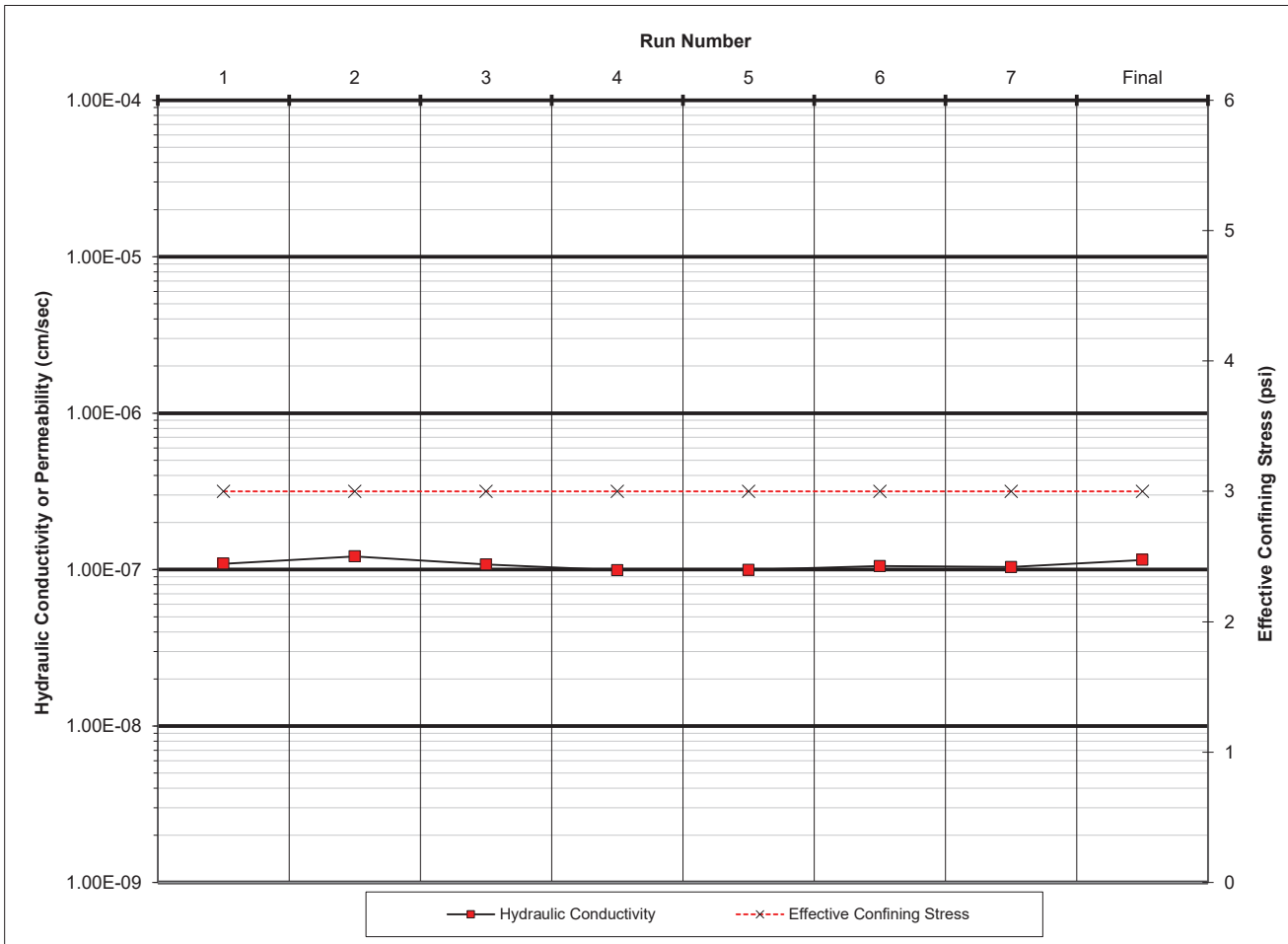
Method ASTM D 5084



HWAGEOSCIENCES INC.

| | | | | | |
|---------------------------|--|--|-------|--------------------------------------|-------|
| Project | C Street Landfill | Assumed Specific Gravity | 2.67 | Final Sample Area (cm ²) | 81.11 |
| Client | Brumfield Construction, Inc. | Initial Sample Area (cm ²) | 81.18 | Final Sample Length (cm) | 11.70 |
| Project number | 2022-212 | Initial Sample Length (cm) | 11.69 | Final Sample Volume (cc) | 948.6 |
| Date | 5/23/2023 | Initial Sample Volume (cc) | 949.2 | Final moisture (%) | 16.6 |
| Technician | AH | Initial moisture (%) | 16.3 | Final wet unit weight (pcf) | 133.0 |
| Sample point | Delphi | Initial wet unit wt. (pcf) | 130.9 | Final dry unit weight (pcf) | 114.1 |
| Sample number | S-7 | Initial dry unit wt. (pcf) | 112.6 | Final void ratio | 0.461 |
| Sample depth | 0 | Initial void ratio | 0.480 | Final porosity | 0.315 |
| Sample description | Dark brown, silty GRAVEL with sand and cobbles | Initial porosity | 0.324 | Final saturation (%) | 96.4 |
| | | Initial saturation (%) | 90.5 | | |

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|--------------------------|
| 1 | 1.1E-07 | n.a. | | 0.92 | 3 | Maximum Gradient |
| 2 | 1.2E-07 | n.a. | | 1.00 | 3 | 13.0 |
| 3 | 1.1E-07 | n.a. | | 1.00 | 3 | Minimum Gradient |
| 4 | 9.9E-08 | 1.1E-07 | 11.0% | 0.75 | 3 | 12.2 |
| 5 | 1.0E-07 | 1.1E-07 | 13.5% | 1.00 | 3 | Max. Back Pressure (psi) |
| 6 | 1.1E-07 | 1.0E-07 | 4.6% | 1.00 | 3 | 16.0 |
| 7 | 1.0E-07 | 1.0E-07 | 3.3% | 1.00 | 3 | Min. Back Pressure (psi) |
| Final | 1.2E-07 | 1.1E-07 | 8.8% | 1.00 | 3 | 16.0 |



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



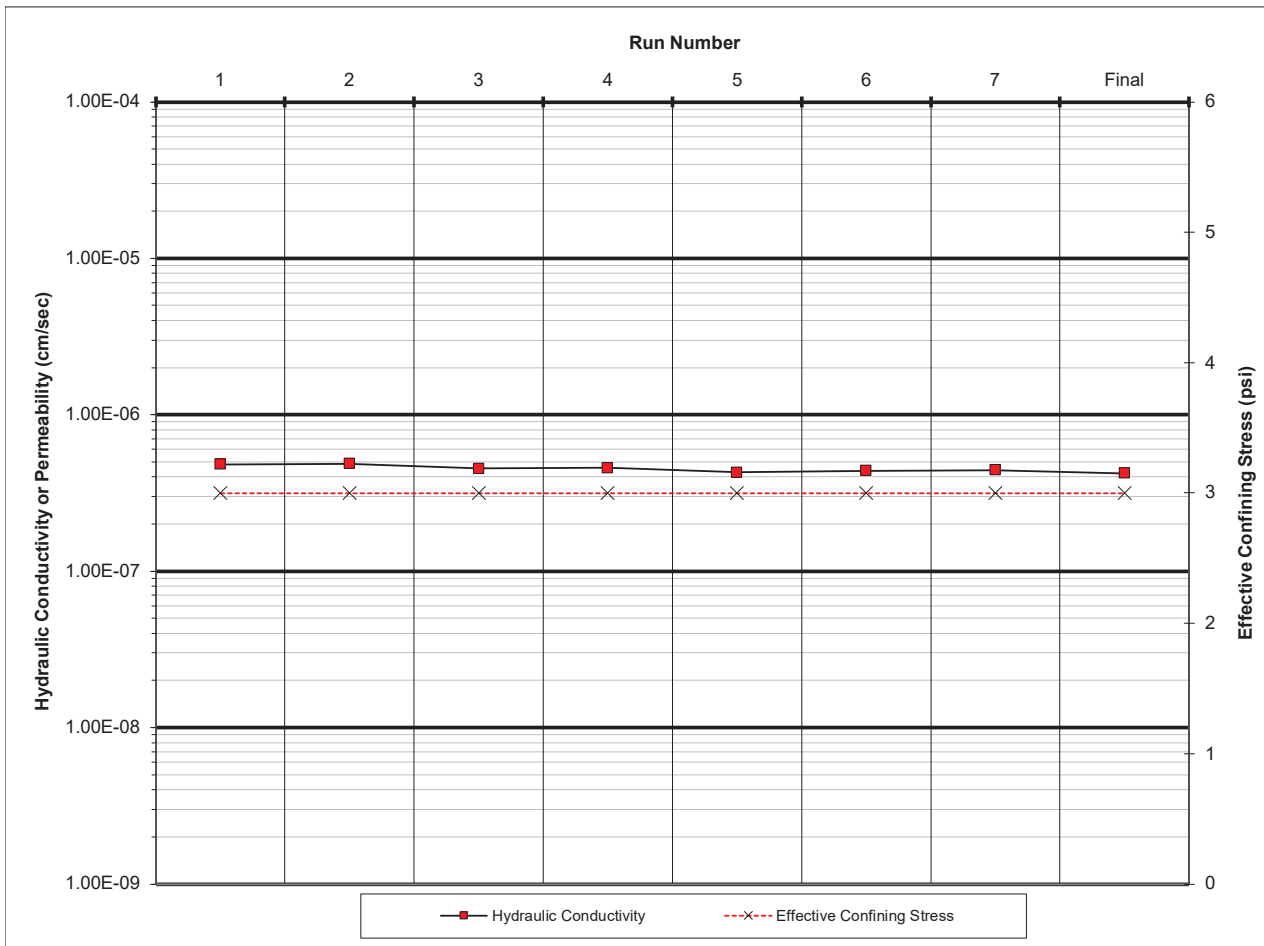
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction, Inc.
Project number 2022-212
Date 5/19/2023
Technician AH
Sample point Delphi
Sample number S-8
Sample depth 0
Sample description Dark brown, silty GRAVEL with sand and cobbles

Assumed Specific Gravity 2.67
 Initial Sample Area (cm²) 80.64
 Initial Sample Length (cm) 11.73
 Initial Sample Volume (cc) 945.8
 Initial moisture (%) 16.0
 Initial wet unit wt. (pcf) 131.1
 Initial dry unit wt. (pcf) 113.0
 Initial void ratio 0.475
 Initial porosity 0.322
 Initial saturation (%) 90.1

Final Sample Area (cm²) 81.45
 Final Sample Length (cm) 11.72
 Final Sample Volume (cc) 954.9
 Final moisture (%) 18.8
 Final wet unit weight (pcf) 133.1
 Final dry unit weight (pcf) 112.0
 Final void ratio 0.487
 Final porosity 0.328
 Final saturation (%) 102.8

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 4.8E-07 | n.a. | | 0.87 | 3 | Maximum Gradient 13.0 |
| 2 | 4.9E-07 | n.a. | | 1.00 | 3 | Minimum Gradient 10.3 |
| 3 | 4.5E-07 | n.a. | | 1.00 | 3 | Max. Back Pressure (psi) 16.0 |
| 4 | 4.6E-07 | 4.7E-07 | 3.5% | 0.99 | 3 | Min. Back Pressure (psi) 16.0 |
| 5 | 4.3E-07 | 4.6E-07 | 6.5% | 1.00 | 3 | |
| 6 | 4.4E-07 | 4.4E-07 | 3.5% | 1.00 | 3 | |
| 7 | 4.4E-07 | 4.4E-07 | 3.5% | 1.00 | 3 | |
| Final | 4.2E-07 | 4.3E-07 | 2.6% | 1.00 | 3 | |



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



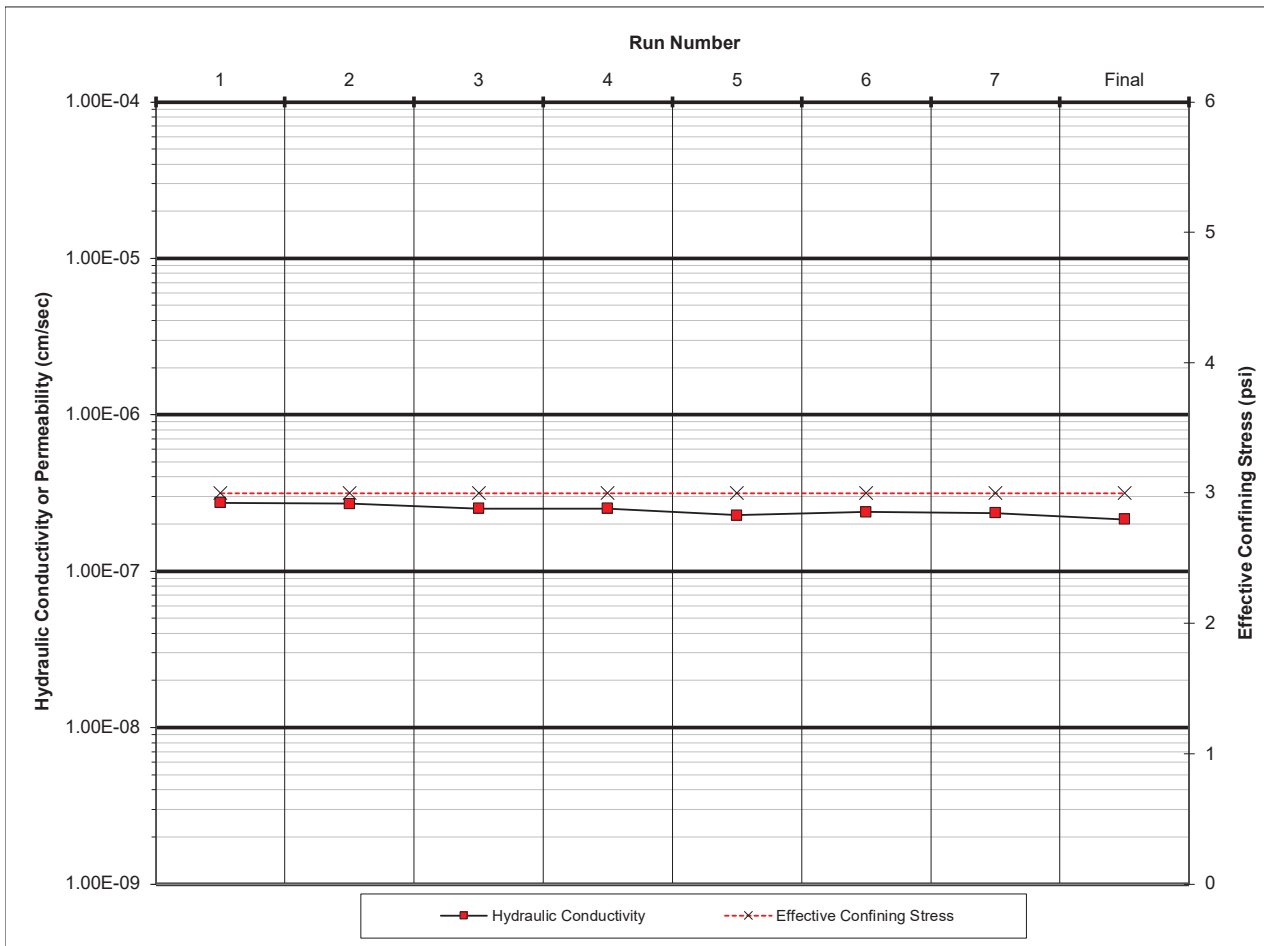
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Inc.
Project number 2022-212
Date 5/22/2023
Technician AH
Sample point Delphi
Sample number S-9
Sample depth 0
Sample description Dark brown, silty GRAVEL with sand and cobbles

Assumed Specific Gravity 2.67
Initial Sample Area (cm²) 81.18
Initial Sample Length (cm) 11.69
Initial Sample Volume (cc) 948.7
Initial moisture (%) 16.4
Initial wet unit wt. (pcf) 131.0
Initial dry unit wt. (pcf) 112.5
Initial void ratio 0.481
Initial porosity 0.325
Initial saturation (%) 91.2

Final Sample Area (cm²) 81.02
Final Sample Length (cm) 11.71
Final Sample Volume (cc) 949.0
Final moisture (%) 18.9
Final wet unit weight (pcf) 133.3
Final dry unit weight (pcf) 112.2
Final void ratio 0.485
Final porosity 0.327
Final saturation (%) 103.8

| Run No. | Hydraulic Conductivity (cm/s) | Running Average of 4 Readings (cm/s) | Maximum % Deviation from Average (should be less than 25%) | Flow Ratio (0.75 to 1.25 required) | Effective Confining Stress (psi) | Other Information |
|---------|-------------------------------|--------------------------------------|--|------------------------------------|----------------------------------|----------------------------------|
| 1 | 2.7E-07 | n.a. | | 0.96 | 3 | Maximum Gradient 13.0 |
| 2 | 2.7E-07 | n.a. | | 1.00 | 3 | |
| 3 | 2.5E-07 | n.a. | | 0.94 | 3 | Minimum Gradient 10.8 |
| 4 | 2.5E-07 | 2.6E-07 | 4.4% | 0.89 | 3 | |
| 5 | 2.3E-07 | 2.5E-07 | 9.1% | 1.00 | 3 | Max. Back Pressure (psi) 16.0 |
| 6 | 2.4E-07 | 2.4E-07 | 6.1% | 1.00 | 3 | Min. Back Pressure (psi) 16.0 |
| 7 | 2.4E-07 | 2.4E-07 | 5.5% | 0.93 | 3 | |
| Final | 2.1E-07 | 2.3E-07 | 6.6% | 1.00 | 3 | |



Checked by: SEG

APPENDIX F

Low Permeability Soil Density Test Reports



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309477

CLIENT Brumfield Construction **DATE** 05/15/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/15/2023 **Time Onsite:** 1030 **Weather Conditions:** 90s, sunny
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: SOUTH EAST CORNER **Gauge Standard MS:** 708
Equipment ID & Serial #: Troxler 3440A, Ser. #22152 **Gauge Standard DS:** 1973

Test Samples:

| Sample # | Description | Proctor Value(pcf) | Optimum Moisture and Oversize Rock Correction |
|----------|---|--------------------|---|
| 1. | Others GP, POORLY GRADED GRAVEL WITH SAND | 128.9 | 10.8 |

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Reqd. |
|--------|--------------|-------------------|-------|-----------|-----------|---------|----------|---------|---------|
| 1 | 6" | SEE TEST 1 ON MAP | FSG | 143 | 123 | 16.3 | 1 | 95.4 | 95 |

- Native Soils Soils consistent with Proctor Yes No
- Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
- Contractor notified of results Yes No

Remarks:

MTC inspector was met on site by the contractor's geo representative and was instructed to test the imported material used as backfill near the SE corner as shown below.

Area tested were firm and unyielding at the time of inspection. But was over optimum moisture and will need reviewed by engineering firm of record.

Inspector was given a proctor available from another geo laboratory at the time of inspection.

The contractor was notified of the results verbally at that time.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
 360.755.1990

www.mtc-inc.net



UPLOADED: 05/15/2023 11:42:10



UPLOADED: 05/15/2023 11:52:46



UPLOADED: 05/15/2023 11:52:48



UPLOADED: 05/15/2023 11:53:47

REPORTED BY: Wes Parnell

REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309789

CLIENT Brumfield Construction **DATE** 05/16/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/16/2023 **Time Onsite:** 11:00 am **Weather Conditions:** sunny 80 degrees F.

Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 1055
Equipment ID & Serial #: CPN MC-1 Elite, Ser. #MD30831 **Gauge Standard DS:** 3866

Test Samples:

| Sample #: | Description: | Proctor Value(pcf): | Optimum Moisture | and Oversize Rock Correction: |
|-----------|---------------------------------------|---------------------|------------------|-------------------------------|
| 1. | others Poorly graded gravel with sand | 128.9 | 10.8 | |

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Reqd. |
|--------|--------------|------------------|-------|-----------|-----------|---------|----------|---------|---------|
| 1 | 6 | See Photo | | 139 | 122.7 | 13.3 | 1 | 95.2 | 95 |
| 2 | 6 | See Photo | | 138.3 | 123 | 12.4 | 1 | 95.4 | 95 |

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
 Contractor notified of results Yes No

Remarks:

MTC Inspector arrived onsite as requested to perform in-place density testing of imported material being used as backfill around the Landfill.

Contractor was placing 10" loose lifts of material on top of geo fabric and compacting it using a sheep's foot.

Areas tested DID meet relative compaction at the time of inspection. Materials were firm and unyielding at the time of inspection. See results below for more details.

Contractor was notified of the results verbally at that time.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



UPLOADED: 05/18/2023 10:51:53



UPLOADED: 05/18/2023 10:52:15



UPLOADED: 05/18/2023 10:54:44

REPORTED BY: David Peek REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila

360.755.1990

www.mtc-inc.net



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309780

CLIENT Brumfield Construction **DATE** 05/17/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/17/2023 **Time Onsite:** 1230 **Weather Conditions:** sunny 80 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: **Gauge Standard MS:**
Equipment ID & Serial #: Troxler 3430, Ser. #28205 **Gauge Standard DS:**

Test Samples:

Sample #: Description: Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:
 1.

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Reqd. |
|--------|--------------|------------------|-------|-----------|-----------|---------|----------|---------|---------|
| 1 | 6" | seew media | BFG | 141 | 126.5 | 11.5 | 1 | 98.1 | 95 |
| 2 | | see media | BFG | 142.2 | 125.2 | 13.6 | 1 | 97.1 | 95 |

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
 Contractor notified of results Yes No

Remarks:

MTC inspector was on-site to perform in-place density testing on backfill at a landfill. The contractor placed the material and compacted it using a sheeps foot roller. In place density testing was conducted and the results of those tests are contained in this report. All areas tested DID meet or exceed the minimum compaction requirements of the project.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



UPLOADED: 05/18/2023 10:22:40

REPORTED BY: John Magerstaedt



UPLOADED: 05/18/2023 10:26:36

REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310038

CLIENT Brumfield Construction **DATE** 05/22/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/22/2023 **Time Onsite:** 1400 **Weather Conditions:** sunny 60 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 636
Equipment ID & Serial #: Troxler 3430, Ser. #28205 **Gauge Standard DS:** 1608

Test Samples:

| Sample #: | Description: | Proctor Value(pcf): | Optimum Moisture | Oversize Rock Correction: |
|-----------|---------------------------------------|---------------------|------------------|---------------------------|
| 1. | others Poorly graded gravel with sand | 128.1 | 10.8 | |

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Req'd. |
|--------|--------------|-------------------|---------|-----------|-----------|---------|----------|---------|----------|
| 1 | 8" | SEE TEST 1 ON MAP | -1'BFSG | 140.3 | 123 | 14.1 | 1 | 96 | 95 |
| 2 | 8" | SEE TEST 2 ON MAP | -1'BFSG | 145.2 | 124.5 | 16.6 | 1 | 97.2 | 95 |
| 3 | 8" | SEE TEST 3 ON MAP | -1'BFSG | 141.3 | 123.6 | 14.3 | 1 | 96.5 | 95 |
| 4 | 8" | SEE TEST 4 ON MAP | -1'BFSG | 138.8 | 122 | 13.8 | 1 | 95.2 | 95 |
| 5 | 6" | SEE TEST 5 ON MAP | -1'BFSG | 140.5 | 121.1 | 16 | 1 | 94.5 | 95 |

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
 Contractor notified of results Yes No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.
 The contractor was placing material in 10" loose lifts on top of geo fabric and compacting it using a sheep's foot.
 In-place Density Tests showed the material placed today DID Meet 95% compaction on tests 1-4 BUT TEST 5 DID NOT meet relative compaction and all tests showed high moisture content. See the results below for more details.
 The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



UPLOADED: 05/22/2023 22:19:29



UPLOADED: 05/22/2023 22:19:31



UPLOADED: 05/22/2023 22:24:24



UPLOADED: 05/22/2023 22:24:26



UPLOADED: 05/22/2023 22:28:49

REPORTED BY: Wes Parnell REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310311

CLIENT Brumfield Construction **DATE** 05/25/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/25/2023 **Time Onsite:** 0700 **Weather Conditions:** 50's, Sunny
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 749
Equipment ID & Serial #: Instrotek 3500, Ser. #4547 **Gauge Standard DS:** 2681

Test Samples:

Sample #: Description: Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:
 1. S23-0525 Poorly graded gravel with sand 133.1 7.2%

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Req'd. |
|--------|--------------|-------------------|-------|-----------|-----------|---------|----------|---------|----------|
| 1 | 6" | See picture below | FSG | 141.5 | 123.8 | 14.3 | 1 | 93 | 95 |
| 2 | 6" | See picture below | FSG | 136.5 | 119.1 | 14.6 | 1 | 89.5 | 95 |
| 3 | 6" | See picture below | FSG | 131.4 | 113.7 | 15.6 | 1 | 85.4 | 95 |
| 4 | 6" | See picture below | FSG | 135.3 | 117.1 | 15.5 | 1 | 88 | 95 |
| 5 | 6" | See picture below | FSG | 140.5 | 122.4 | 14.8 | 1 | 92 | 95 |

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
 Contractor notified of results Yes No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.
 In-place Density Tests showed the material placed today DID NOT meet relative compaction and showed high moisture content. See results below for more details.
 The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



UPLOADED: 05/25/2023 19:02:10

REPORTED BY: Nicholas Dier REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310534

CLIENT Brumfield Construction **DATE** 05/30/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/30/2023 **Time Onsite:** 1315 **Weather Conditions:** sunny 70 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill as shown below **Gauge Standard MS:** 706
Equipment ID & Serial #: Troxler 3440A, Ser. #22152 **Gauge Standard DS:** 1972

Test Samples:

| Sample #: | Description: | Proctor Value(pcf): | Optimum Moisture and Oversize Rock Correction: |
|-----------|---|---------------------|--|
| 1. | others Poorly graded gravel with sand | 128.1 | 10.8 |
| 2. | S23-0525 POORLY GRADED GRAVEL WITH SAND | 133.1 | 7.2% |

TEST METHOD ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

| Test # | Mode / Depth | Location of Test | Elev. | Wet Dens. | Dry Dens. | Moist % | Sample # | % Comp. | % Req'd. |
|--------|--------------|--------------------|-------|-----------|-----------|---------|----------|---------|----------|
| 1 | 6" | SEE TEST 1 ON MAP | FSG | 143.6 | 127.8 | 12.4 | 2 | 96 | 95 |
| 2 | 6" | SEE TEST 2 ON MAP | FSG | 142.9 | 126 | 13.4 | 1 | 98.4 | 95 |
| 3 | 6" | SEE TEST 3 ON MAP | FSG | 139.3 | 122.7 | 13.5 | 1 | 95.8 | 95 |
| 4 | 6" | SEE TEST 4 ON MAP | FSG | 140.4 | 123.8 | 13.4 | 1 | 96.6 | 95 |
| 5 | 6" | SEE TEST 5 ON MAP | FSG | 140.3 | 122.3 | 14.7 | 1 | 95.5 | 95 |
| 6 | 6" | SEE TEST 6 ON MAP | FSG | 139.7 | 125.3 | 11.5 | 1 | 97.8 | 95 |
| 7 | 6" | SEE TEST 7 ON MAP | FSG | 145.7 | 127.6 | 14.2 | 2 | 95.9 | 95 |
| 8 | 6" | SEE TEST 8 ON MAP | FSG | 144.6 | 126.8 | 14 | 2 | 95.3 | 95 |
| 9 | 6" | SEE TEST 9 ON MAP | FSG | 138.3 | 122.4 | 13 | 1 | 95.6 | 95 |
| 10 | 6" | SEE TEST 10 ON MAP | FSG | 139.2 | 123.2 | 13 | 1 | 96.2 | 95 |
| 11 | 6" | SEE TEST 11 ON MAP | FSG | 139.2 | 122.2 | 13.9 | 1 | 95.4 | 95 |

- Native Soils Soils consistent with Proctor Yes No
 Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction Yes No
Contractor notified of results Yes No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.

The contractor finished placing material in compacted lifts on top of geo fabric, compaction was achieved using a sheep's foot steel drum vibratory roller.

In-place Density Tests showed the material placed prior to inspection DID Meet 95% compaction on tests. All tests showed high moisture content. See the results below for more details.

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila
360.755.1990

www.mtc-inc.net

Moisture will need reviewed by the engineering of record.

The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:



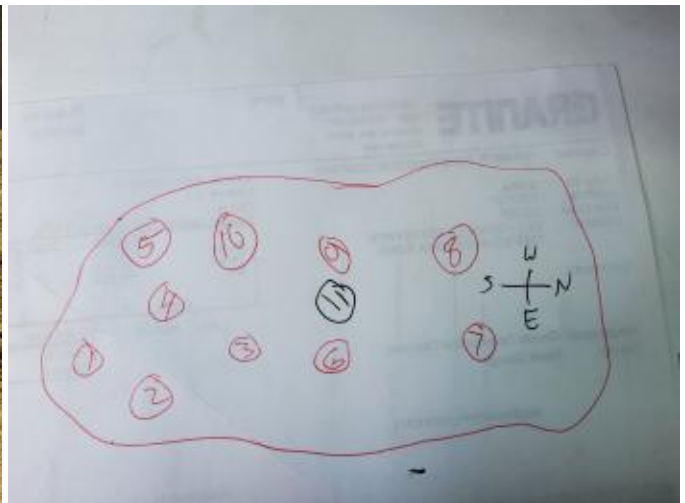
UPLOADED: 05/31/2023 13:08:33



UPLOADED: 05/31/2023 13:08:36



UPLOADED: 05/31/2023 13:12:13



UPLOADED: 05/31/2023 13:14:08

REPORTED BY: Wes Parnell

REVIEWED BY: Michael Houser, Project Manager

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Environmental • Geotechnical Engineering • Special Inspection • Non-Destructive Testing • Materials Testing

Burlington|Olympia|Bellingham|Silverdale|Tukwila

360.755.1990

www.mtc-inc.net

APPENDIX G

Initial Settlement Survey Report



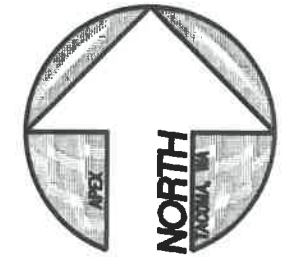
| | |
|----------------------|--|
| Apex Job No. | 36650 |
| Project Name: | Shelton Landfill - Vertical Settlement Monitoring |
| Note 1: | Vertical settlement points are rebar with control cap and 4' lath |
| Note 2: | Subsequent re-measurements will be compared against the baseline elevations indicated below to determine the extent of settlement, if any. |

| SETTLEMENT POINT NUMBER | LOCATION | INITIAL BASELINE ELEVATIONS 6/26/2023 | FIRST READING | SECOND READING | THIRD READING |
|-------------------------|-----------------|--|---------------|----------------|---------------|
| 1 | SEE EXHIBIT MAP | 169.99 | 169.988 | 169.989 | 169.991 |
| 2 | | 165.42 | 165.416 | 165.417 | 165.422 |
| 3 | | 164.36 | 164.360 | 164.360 | 164.364 |
| 4 | | 163.27 | 163.269 | 163.268 | 163.271 |
| 5 | | 163.48 | 163.479 | 163.479 | 163.482 |
| 6 | | 164.33 | 164.328 | 164.328 | 164.331 |
| 7 | | 164.74 | 164.738 | 164.743 | 164.744 |
| 8 | | 165.61 | 165.609 | 165.610 | 165.611 |

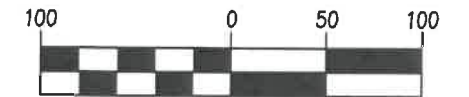
C:\Users\PLS\Desktop\PROJECTS\APEX Jobs\36650 - Shelton Landfill Addnl Topo\36650-SV Topo.dwg



**SHELTON
LANDFILL
SETTLEMENT
MONITORING
EXHIBIT**



GRAPHIC SCALE



(IN FEET)
1 inch = 100ft.

VERTICAL DATUM

NAVD 88 BASED ON RTK GPS MEASUREMENTS
CONSTRAINED TO THE WASHINGTON STATE
REFERENCE NETWORK.

Aug. 16, 2023



JOB-NO-36650

Apex
Engineering

2601 South 35th Street, Suite 200
Tacoma, Washington 98409-7479
(253) 473-4494 FAX: (253) 473-0599
© APEX ENGINEERING LLC 2023