

## **Cleanup Action Report**

## **Legion Lots Haack Parcels** 413 and 419 Rockefeller Avenue **Everett, Washington**

**Prepared For:** 

**Haack Brothers Homes** 3922 87th Avenue Northeast Marysville, Washington 98270

May 2, 2022

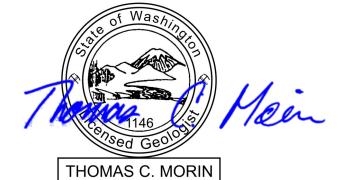
#### Prepared By:

TRC Enivronmental Corporation 1180 NW Maple Street, Suite 310 Issaquah, Washington 98027 (425) 395-0010

WESLEY R. WEISBERG

Prepared by: Wesley R. Weisberg, L.G. **Project Geologist** 

TRC Project Number: 424198.0001.0000



Reviewed and approved by: Thomas C. Morin, L.G. Principal Geologist/PNW Area Practice Leader





## **Voluntary Cleanup Program**

Washington State Department of Ecology Toxics Cleanup Program

## **REQUEST FOR OPINION FORM**

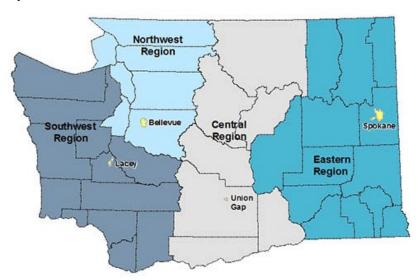
Use this form to request a written opinion on your planned or completed independent remedial action under the Voluntary Cleanup Program (VCP). Attach to this form the plans or reports documenting the remedial action. Please submit only one form for each request.

Step 1: IDENTIFY HAZARDOUS WASTE	SITE
Please identify below the hazardous waste under the VCP. This information may be for	e site for which you are requesting a written opinion und on the VCP Agreement.
Facility/Site Name:	
Facility/Site Address:	
Facility/Site No:	VCP Project No.:
Step 2: REQUEST WRITTEN OPINION O	ON PLAN OR REPORT
What type of independent remedial action punder the VCP? Please check all that apply	olan or report are you submitting to Ecology for review
Remedial investigation plan	
Remedial investigation report	
Feasibility study report	
☐ Property cleanup* plan (* clean	up of one or more parcels located within the Site)
☐ Property cleanup* report	
Site cleanup plan	
Site cleanup report	
Other – please specify:	
Do you want Ecology to provide you windependent remedial action?  Yes No	th a written opinion on the planned or completed
Please note that Ecology's opinion will be lir	mited to:
Whether the planned or completed r requirements of the Model Toxics Control	remedial action at the site meets the substantive of Act (MTCA), and/or
Whether further remedial action is neces	ssary at the site under MTCA.

Step 3: REPRESENTATIONS AND SIGNATURE						
The undersigned representative of the Customer hereby certifies that he or she is fully authorized to request services from Ecology under the Agreement for this VCP Project.						
Name:				Title:		
Signature: Wesley Weisberg					Date:	
Organization:	Ü					
Mailing address:						
City: State:			te:	Zip code:		code:
Phone: Fax: E-mail:						

### Step 4: SUBMITTAL

Please mail your completed form and the independent remedial action plan or report that you are requesting Ecology review to the site manager Ecology assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: VCP Coordinator 3190 160 <sup>th</sup> Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009		
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295		

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

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	2-28-20
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#### ABBREVIATIONS AND ACRONYMS

#### Abbreviation/

**Acronym** 

ASI	Additional Subsurface Investigation
ASIWP	Additional Subsurface Investigation Work Plan
bgs	Below ground surface
0.4.0	Ole and the Author Department

CAR Cleanup Action Report
CFR Code of Federal Regulations
COC Contaminants of concern

**Definition** 

COPCs Compounds of potential concern

CSM Conceptual site model

CULs Cleanup Levels

DPT Direct-Push Technology

Ecology Washington State Department of Ecology

EC Environmental Covenant

EPA U.S. Environmental Protection Agency

EPI Environmental Partners Inc.
ESP Everett Smelter Plume
FBI Friedman and Bruya, Inc.
Haack Brothers Haack Brothers Homes, LLC
HASP Health and Safety Plan

HAZWOPER Hazardous Waste Operations and Emergency Response

LMGC Legion Memorial Golf Course mg/kg Milligrams per kilogram MTCA Model Toxics Control Act

NFA No Further Action

OSHA Occupational Safety and Health Administration

RCW Revised Code of Washington

RI/FS Remedial Investigation/Feasibility Study

TEE Terrestrial Ecological Evaluation
VCP Voluntary Cleanup Program
WAC Washington Administrative Code

WISHA Washington Industrial Safety and Health Act



#### 1.0 INTRODUCTION

TRC Environmental Corporation (TRC) is pleased to present this *Cleanup Action Report* (CAR) for the Legion Lots Haack Parcels (Haack Parcels) property located at 413 and 419 Rockefeller Avenue in Everett, Washington (Property or Site; Figure 1). The Haack Parcels are enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP) as Site No. NW3268, Facility/Site ID No. 9311679, and Cleanup Site ID: 1653. Ms. Sonia Fernandez is the Ecology Site Manager and Mr. Derek Threet is the Ecology Assistant Attorney General (AAG) assigned to the Haack Parcels. A representation of the Site is presented on Figures 1 and 2. The Haack Parcels are identified in the property records of Snohomish County as Tax Parcel Number 00438610400600. Haack Brothers Homes, LLC (Haack Brothers) currently owns the Haack Parcels (also referred to as "Lots").

Haack Brothers completed a cleanup action at the Haack Parcels in accordance with the requirements of the Model Toxics Control Act (Chapter 70.105D Revised Code of Washington [RCW]) and its implementing regulations (Chapter 173-340 Washington Administrative Code [WAC]), which together are referred to as "MTCA." The cleanup action consisted of the excavation and removal of all hazardous substances at concentrations exceeding applicable cleanup levels resulting in a final, permanent remedy for the Haack Parcels. No further remedial action is necessary or possible at the Haack Parcels.

Key information about the Haack Parcels is as follows:

The Haack Parcels are currently listed in databases maintained by Ecology.

Ecology Facility Site ID Number: 9311679

Ecology Cleanup ID Number: 1653

VCP Number: NW3268

Project Consultant for the Site:

TRC 1180 NW Maple Street, Suite 310 Issaquah, Washington 98027 425-395-0010

Attn: Thomas Morin

• Party Performing Cleanup Action:

Haack Brothers Homes, LLC 3922 87<sup>th</sup> Avenue Northeast Marysville, Washington 98270

Attn: Joel Haack



#### 2.0 SITE IDENTIFICATION AND DESCRIPTION

This section presents information about the Haack Parcels and observed impacts in the context of its location.

#### 2.1 Site Discovery and Regulatory Status

The Haack Parcels are located within the far western boundary of the Legion Memorial Golf Course (LMGC), which is a cleanup Site in Ecology's VCP. (Figure 2).

The LMGC was the subject of a Remedial Investigation and Feasibility Study (RI/FS) related to particulate emissions from the historical ASARCO Everett Smelter and documented in the *East Marine View Drive Widening and Legion Memorial Golf Course Improvement Independent Remedial Action Report*, prepared for the City of Everett by Hydrometrics, Inc., dated December 1998. Soil at the LMGC was found to be impacted with arsenic at concentrations exceeding relevant regulatory levels. The remedy for the LMGC Site included the use of an Environmental Covenant (EC). It appears that the Haack Parcels are within the boundary of the EC area, although the legal description within the EC is not clear.

The City of Everett previously allowed fill material from retention pond construction to be stored on the Haack Parcels. Placement of this fill was inconsistent with the requirements of the EC and was not preapproved by Ecology, as required. The fill material was reportedly tested and was determined to be "clean" and was used as fill material in the Lowland portion of the ASARCO Everett Smelter Cleanup Site. Significant amounts of fill remained on the Site covering the historical golf course surface grade. After removal of a portion of the fill, a contractor for the City of Everett collected three soil samples from around the area of the former fill stockpile. One of those samples, named "Site 3 (North)," contained concentrations of arsenic and lead exceeding applicable cleanup levels. Based on the limited available documentation, that sample appears to have been obtained from a location near the boundary of Lots 5 and 6 of the Haack Parcels. The sample location was not surveyed or referenced with any directions or distances from a fixed point. There is no documentation regarding sampling protocols or whether the samples were collected by a professional. There was no written report documenting any sampling procedures or results.

As a component of pre-purchase due diligence, Haack Brothers performed an environmental assessment of the property. Environmental Partners, Inc. (EPI)<sup>1</sup>, a TRC Company, completed a Targeted Subsurface Investigation of the Haack Parcels in December 2019. The Targeted Subsurface Investigation was conducted on Lots 5 and 6 to assess soil quality in native soil beneath the fill material placed by the City of Everett (Figure 3). Soil samples collected from the Haack Parcels were submitted for analysis of arsenic, cadmium, and lead, the Haack Parcels contaminants of concern (COCs). None of the reported soil sample results exceeded the corresponding MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses (Soil CULs) for these metals.

<sup>&</sup>lt;sup>1</sup> TRC acquired EPI on December 27, 2019. For the purposes of this document and project EPI and TRC may be used synonymously.



It is important to note that the Haack Parcels are a small portion of the larger LMGC Site, which has undergone extensive assessment under Ecology's RI/FS process and has achieved regulatory closure. Assessment of Lots 1 through 6 was completed during the RI/FS process for the LMGC Site. As such, the additional work performed by Haack Brothers is intended to maintain compliance with the prior EC and regulatory closure and to assess additional actions that may be necessary to remove Lots 1 through 6 from the EC (Attachment A).

Based on the results of the Targeted Subsurface Investigation, TRC prepared an *Additional Subsurface Investigation Work Plan* (ASI Work Plan), dated February 28, 2020 (Attachment B). The ASI Work Plan summarized the findings of the Targeted Subsurface Investigation of Lot 5 and Lot 6 to Ecology and proposed additional sampling procedures for Lots 1 through 4. As part of this submittal, TRC requested an opinion from Ecology through the VCP.

Ecology responded with an opinion letter (Attachment C), dated, November 30, 2020, that requested a broader scope of investigation of the Haack Parcels than proposed in the ASI Work Plan. TRC prepared a *Revised ASI Work Plan* (Attachment D) in January 2021 to assess and characterize soil conditions beneath the placed fill on the Haack Parcels consistent with Ecology's comments. This Revised ASI Work Plan established minimum requirements for considering the Haack Parcels fully characterized to support of an eventual No Further Action (NFA) determination.

As proposed in the Revised ASI Work Plan, TRC followed the sampling frequency and protocols established for assessment of sites impacted by the ASARCO Everett Smelter Plume by subdividing each parcel into 10 grid squares (Figure 3). Soil samples were collected at four depth intervals for each of the 60 boring locations within the assessment area. This sampling scheme resulted in a high degree of characterization and identified areas where soil and fill are impacted at concentrations greater than the MTCA Method A Soil CULs for the Haack Parcels COCs.

The results of the Revised ASI were discussed with Ecology (Figure 4). It was determined that the most direct path to removing the Haack Parcels from the EC and obtaining an unconditional NFA determination was to establish compliance with MTCA Method A Soil CULs throughout the Haack Parcels for the targeted COCs by remedial excavation of contaminated soils.

In October 2021, TRC completed the remedial work at the Haack Parcels by excavating impacted soil from six locations as depicted on Figure 5. The remedial excavations successfully removed all soil with COC concentrations exceeding applicable MTCA Method A Soil CULs. Details of the remedial excavation for the Haack Parcels are outlined in Section 10 of this Report.

#### 2.2 Property and Site Location

The Haack Parcels are located adjacent to Rockefeller Avenue and were formerly a part of the LMGC owned by the City of Everett. The City sold the property on February 19, 2020 to Haack Brothers as recorded in the property records of Snohomish County, under recording No. 202002287036. The Haack Parcels encompass approximately 40,000 square feet. The legal description of the Haack Parcels is presented below:



Section 08 Township 29 Range 05 Quarter SW EVERETT DIV S PLAT OF BLK 104 D-00 PAR A CITY EV BLA FILE NO BLA19-011 REC AFN 201912185007 AMD BY REC AFN 202009115004 & DEC OF OWNERSHIP REC AFN201912180588 BEING PTN BLK 104 SD PLAT.

The geographic coordinates for the Haack Parcels are 48.011254 north latitude, -122.204667 west longitude. The Haack Parcels are further partitioned into six adjacent rectangular lots that are each approximately 6,500 square feet. The approximate geographic coordinate for each lot is as follows:

- Lot 1 is 48.010906 north latitude, -122.204687 west longitude
- Lot 2 is 48.011039 north latitude, -122.204680 west longitude
- Lot 3 is 48.011195 north latitude, -122.204674 west longitude
- Lot 4 is 48.011391 north latitude, -122.204667 west longitude
- Lot 5 is 48.011554 north latitude, -122.204654 west longitude
- Lot 6 is 48.011657 north latitude, -122.204648 west longitude

#### 2.3 Site Setting

The Haack Parcels are located adjacent to the western edge of the LMGC in the northwest City of Everett. The Haack Parcels are currently under development for single-family homes. The LMGC lot abuts the eastern and southern boundary of the Haack Parcels. A grass easement right-of-way along Rockefeller Avenue owned by the City of Everett abuts the western boundary of the Haack Parcels. Residential buildings are located at the northern boundary of the Haack Parcels. The Haack Parcels are relatively topographically flat with a moderate to steep slope upward along the eastern property boundary within the LMGC. The Haack Parcels are partitioned into six adjoining lots and the City of Everett has placed permanent fencing around the perimeter of the Haack Parcels and the LMGC.

#### 2.4 Physiographic Setting

The Haack Parcels are situated at an elevation of approximately 75 feet above mean sea level (AMSL) and gently slopes north to south. At the time of preparation of the CAR, the Haack Parcels are undergoing development.

#### 3.0 PROPERTY DEVELOPMENT AND HISTORY

This section summarizes previous uses of the Haack Parcels and provides information regarding the source of the hazardous substances at the Haack Parcels. The Haack Parcels are the focus of this section.



#### 3.1 Past Site Uses

Sanborn Fire Insurance Maps indicate the property is within what was once known as the Legion Memorial Park, which extended across the LMGC and the Haack Parcels to the west of what is now Rockefeller Avenue. The Legion Memorial Park was later converted into the LMGC, which included the Haack Parcels. The LMGC is interpreted by Ecology as lying within the Everett Smelter Plume (ESP) Upland Area where airborne dust emissions from the former ASARCO Everett Smelter settled. These dust emissions are the source of contamination for the Haack Parcels.

The Property appears to have been only used as a section of the park and of the current LMGC since the early 1950s to present.

#### 3.2 Current and Future Site Use

The Haack Parcels are currently vacant and under development. The City of Everett placed fencing around the Property in the summer of 2021. A total of six residential properties are currently under construction on the Haack Parcels. The boundaries and orientation of the lots within the Haack Parcels is shown on Figure 2.

#### 3.3 Zoning

According to the City of Everett Zoning Map and Comprehensive Plan, the Haack Parcels are zoned as Single Family Detached Low Density (R-1). The current and planned development of the Haack Parcels is consistent with this zoning and has been approved by the City of Everett and all other agencies with regulatory authority.

#### 3.4 Transportation and Roads

Access to the Haack Parcels is from Rockefeller Avenue, which runs adjacent to the western edge of the property. Additionally, access to the Haack Parcels is possible through access roads within the LMGC.

#### 3.5 Utilities and Water Supply

Potable water is supplied by the City of Everett municipal system. There are no water supply wells on the Property. Water, sanitary sewer, storm sewer, gas, and electricity will be available throughout the Property after it is developed.

#### 3.6 Potential Sources of Contamination, Identification of Release

The Haack Parcels are currently interpreted by Ecology as lying within the City of Everett Smelter Plume Upland Area Sampling Zones EC, which includes the LMGC. The contamination at the LMGC Site originated from airborne dust emissions from the former ASARCO Everett Smelter. The former ASARCO



ESP is considered a regional Site with broad impacts, much like the ASARCO Tacoma Smelter Site in Ruston, Washington. The regulatory mechanism for closure of the LMGC Site includes the use of an EC that has been interpreted by Ecology as including the six lots that comprise the Haack Parcels.

The City of Everett previously allowed fill from retention pond construction to be stored on the Haack Parcels. The fill material was tested and contained concentrations of arsenic and lead exceeding applicable CULs and derived from the ESP Cleanup Site.

#### 4.0 NATURAL CONDITIONS

The natural conditions of the Haack Parcels are described in the following sections.

#### 4.1 Soil

Soils within the Haack Parcels are characterized as glacial sediments and outwash deposits from historical glaciation events, as is typical for this area. The Haack Parcels are unevenly covered by unconsolidated glacial till material approximately 0 to 5 feet thick that was spread across the Haack Parcels during the excavation of a retention pond on the LMGC Property. These soils are primarily a sandy silt with gravel. The native soils that underlay the fill material consists of silt with some sand and few gravel and are consistent with glaciated soils for the area. Bedrock was not encountered during any of the subsurface investigations and is estimated to be at a significant depth below ground surface (bgs).

#### 4.2 Groundwater

TRC did not encounter groundwater during any of the drilling or excavation activities at the Haack Parcels, which reached a maximum depth of up to 10 feet bgs. Shallow groundwater is not expected at the Haack Parcels. According to reports in the area, regional groundwater for the area is approximately 85 feet bgs. Groundwater is assumed to flow north towards the Snohomish River. If present, shallow groundwater would likely only be present intermittently and perched on thin lenses within outwash sand or sandy gravel deposits sporadically deposited throughout the glacial till.

#### 4.3 Surface Water

There is no surface water on the Haack Parcels property.

#### 4.4 Natural Resources and Ecological Receptors

The Haack Parcels are bounded to the north by single-family homes and Rockefeller Avenue to the west. The areas to the south and east of the Haack Parcels are within the LMGC and contain maintained grass turf and occasional deciduous and conifer trees such as alder, poplar, and firs within the greenspace.



The potential receptors of concern for the Haack Parcels and surrounding areas may include grassland and vascular vegetation, soil biota, ground-feeding birds, ground-feeding small mammalian predators, and small herbivorous mammals. These are categorized into the following three basic categories:

- Plants;
- · Soil biota; and
- Wildlife.

#### 5.0 ENVIRONMENTAL INVESTIGATION

Prior to the sale of the Haack Parcels, the City of Everett disclosed to Haack Bothers that they are located just within the western boundary of the LMGC Site (Facility Site ID 93111679). As discussed above, the LMGC Site is historically assessed for the presence of metals in shallow soil related to historical atmospheric discharges from the ASARCO ESP. The ESP Site was established as a contaminated site by Ecology in 1990. Ecology divided the ESP Site into two investigation areas: the Upland Area and the Lowland Area. These areas are mapped into three zones: Zone A, Zone B, and Zone C. The Haack Parcels property is located along the western boundary of Zone C. The LMGC Site was subject to an EC that appeared to include the Haack Parcels within its boundaries.

Haack Brothers reviewed the available documentation provided by the City of Everett and in the Ecology files for the LMGC Site. The EC was found to not be compliant with the Uniform Environmental Covenants Act (UECA) and did not conform to current requirements for a valid EC. Additionally, the legal description within the EC did not appear to include the Haack Parcels. The RI Report for the LMGC Site did not include any sampling on the Haack Parcels. However, the City of Everett disclosure documents did contain data indicating that the Haack Parcels could be impacted with arsenic and lead in shallow soils. The COCs for the LMGC Site were arsenic, cadmium, and lead in soils.

To properly assess any potential environmental impacts for the Haack Parcels, Haack Brothers retained EPI to assess the stockpiled fill material that the City of Everett left on the Haack Parcel Lots 5 and 6 and to assess native soils beneath the fill material for COCs. EPI conducted a series of subsurface investigations to assess the potential environmental impacts at the Haack Parcels. The results of those investigations and evaluations are described below.

A property specific Terrestrial Ecological Evaluation (TEE) is not necessary for the Haack Parcels as per Ecology Toxics Cleanup Program guidance and as directed by the following documents: East Marine View Drive Widening and Legion Memorial Golf Course Improvement Independent Remedial Action Report, prepared for the City by Hydrometrics, Inc., dated December 1998, and the Everett Smelter Site Integrated Final Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area (Ecology 1999). A comprehensive TEE for the LMGC Site and ESP Upland Area is already well established, which includes the Haack Parcels, and therefore a property-specific TEE is not necessary.



#### 5.1 Targeted Subsurface Investigation

EPI completed a Targeted Subsurface Investigation of the Haack Parcels in the fourth quarter of 2019. The objective of the investigation was to assess soil quality in native soil beneath the fill material placed by the City of Everett and evaluate the presence of potential environmental impacts associated with the ESP. This section presents the findings of the investigation pertinent to the Haack Parcels.

EPI dug two test pits in Lot 6 (TP-1 and TP-2) and two test pits in Lot 5 (TP-3 and TP-4) in the location of the City of Everett's former stockpile. as described in Section 2.1. The locations of TP-1 through TP-4 are indicated on Figure 3. The laboratory analytical results for these samples are summarized in Table 1 and included in Attachment E. Eight soil samples were collected from the text pits and were submitted for analysis of arsenic, cadmium, and lead by U.S. Environmental Protection Agency (EPA) Method 6020. None of the soil sample results exceeded the corresponding MTCA Method A Soil CULs for these metals.

Upon completion of the Targeted Subsurface Investigation, EPI prepared and submitted to Ecology an ASI Work Plan in February 2020. Ecology then requested a broader scope of investigation of the Haack Parcels as it relates to the native soil beneath the fill material placed by the City of Everett. The broader scope request by Ecology was meant to characterize soil conditions on Lots 1 through 4 in addition to Lots 5 and 6, which are covered in the initially proposed ASI Work Plan. The fill material tested "clean"; however, the soil quality beneath the fill material on Lots 1, 2, 3, and 4, which may have been impacted by the historical ESP Site was unknown, requiring a Revised ASI Work Plan (ASIWP). The Revised ASIWP was submitted by TRC to Ecology in January 2021.

#### 5.2 Revised Additional Subsurface Investigation

TRC completed the work proposed in the Revised ASIWP for the Haack Parcels in the first quarter of 2021. Ecology's opinion letter and the ESP sampling requirements are included as Attachment C. Ecology requested that the ASI meet the sampling requirements referenced in Ecology's "Table 7-1: Residential Properties – Sampling Approach and Decision Rules" from Attachment D(Table 7-1). This section presents the findings of the ASI pertinent to the Haack Parcels.

Table 7-1 requires five sampling locations in an area of 4,000 square feet or less. One additional sampling location is required for each additional 500 square feet. Each lot is approximately 6,600 square feet. TRC completed 10 soil borings in each of the six lots to meet these requirements. This resulted in a total of 60 borings across the six lots in the general areas indicated on Figure 4. Boring locations were advanced in a general grid pattern. Each sample grid represented about 660 square feet and each 1 foot of depth within a grid represents about 24 cubic yards of soil.

Samples were collected using standard direct-push technology (DPT) methods. TRC collected two samples from the fill overburden material, when present, and two samples from the underlying native soil. Ecology requires that 10 percent of samples be submitted as "blind" duplicates as a check on laboratory quality control. TRC analyzed a total of 221 discrete soil samples and 24 duplicate samples collected from the Haack Parcels. At each boring, TRC analyzed up to two samples of fill material when present at approximately 0.5 foot to 5 feet bgs and two native soil samples at depths of 0 to 6 inches and 18 to 24



inches below the fill-native soil interface. Samples from the native soils were homogenized over the 6-inch sample interval before being placed within the sample containers. Samples were submitted for analysis of arsenic, cadmium, and lead by EPA Method 6020.

The analytical results indicated that samples collected in Lots 1, 2, 4, 5, and 6 contained arsenic, cadmium, and lead at concentrations greater than the MTCA Method A Soil CULs. Section 6.0 references sample CUL exceedance locations. The sample results are summarized in Table 2 and depicted on Figure 4. The laboratory analytical reports are included in Attachment E. Finished bore logs detailing soil lithology observed during the ASI are included in Attachment F.

Upon completion of the ASI, TRC oversaw a remedial excavation of the Haack Parcels in October 2021. TRC supervised the removal of 594 cubic yards of contaminated soil from the Haack Parcels. Details of the remedial excavation are discussed in Section 10.0, Cleanup of the Property.

#### 6.0 CONTAMINANT OCCURRENCE AND MOVEMENT

The subsurface investigations identified arsenic, cadmium, and lead in shallow soil at concentrations greater than the MTCA Method A Soil CULs in 10 locations within the Haack Parcels 1, 2, 4, 5, and 6 (Figure 4). TRC designated these impacted locations as Excavation Areas 1 through 6 (Figure 5). Arsenic, cadmium, and lead are not mobile under the conditions present at the Haack Parcels. The metals are assumed to originate from the ESP airborne fallout.

#### 7.0 CONCEPTUAL MODEL

The following conceptual site model (CSM) is based on data collected during the subsurface investigation of the Haack Parcels. The CSM identifies potential human and ecologic exposure pathways. The CSM is presented on Figure 6 and is discussed below:

- The Haack Parcels are currently under development as new single-family residential homes. The Haack Parcels were recently graded and are currently undeveloped.
- There is no surface water on any of the six lots within the Haack Parcels.
- Subsurface conditions at the Haack Parcels are generally composed of fill material overlying
  unconsolidated glacial till and recessional outwash. The soils are primarily a sandy silt with
  gravel and denser soils may be encountered with increasing depth as overburden pressure
  increases within the in-situ soils.
- The compounds of potential concern (COPCs) for the Haack Parcels are arsenic, cadmium, and lead.



- The environmental medium where the COPCs were detected is shallow soil. Groundwater
  was not encountered in test pits excavated at the Haack Parcels. The apparent source of the
  COPCs is airborne fallout from the ESP.
- No volatile compounds have been detected in soil at the Haack Parcels. Therefore, indoor air is not a medium of concern for future buildings constructed on the Haack Parcels.
- Soil ingestion and direct contact are the only potential human exposure pathways to the COPCs at the Haack Parcels.
- There are potential terrestrial and ecological exposures to the COPCs at the Haack Parcels; however, these are covered in the 1998 LMGC VCP Feasibility Study and Ecology's LMGC Uplands Cleanup Action Plan published in 1999.

#### 8.0 CLEANUP STANDARDS

TRC selected the Ecology established and approved cleanup standards for the Haack Parcels, which consist of CULs and points of compliance at which those CULs must be achieved. In selecting the CULs, TRC considered the exposure pathways and potential receptors identified in the CSM (Section 7.0). As required by MTCA, the selected CULs are protective of human health and the environment based upon the exposure pathways that remain after completion of the cleanup action.

#### 8.1 Soil

TRC selected MTCA Method A Soil CULs based on approved CULs for the LMGC Uplands Area Site referenced in Ecology's VCP opinion letter (Attachment C). The CUL selected for each COPC is the most stringent of those evaluated for each compound. The selected CUL for each COPC is identified in Table 1.

The COCs for the Haack Parcels consist of those hazardous substances that have been detected at concentrations exceeding the selected CUL. Arsenic, cadmium, and lead are the only COCs for the Haack Parcels. The CULs for these COCs are presented below:

- Arsenic 20.0 milligrams per kilogram (mg/kg);
- Cadmium 2.0 mg/kg; and
- Lead 250.0 mg/kg.

The point of compliance for these CULs is all soil within 15 feet of the ground surface. This point of compliance is protective of all potential human, terrestrial, and ecological exposures at the Haack Parcels (WAC 173-340-740(6)(d)).



#### 8.2 Groundwater

Groundwater is not an affected medium at the Haack Parcels and CULs for groundwater were therefore not developed.

#### 8.3 Surface Water

Surface water is not an affected medium at the Haack Parcels and CULs for surface water were therefore not developed.

#### 8.4 Indoor Air

No volatile compounds have been detected in soil at the Haack Parcels. Therefore, indoor air is not a medium of concern and CULs for indoor air were not developed.

#### 9.0 FEASIBILITY STUDY AND WORK PLAN

A property-specific Feasibility Study was not necessary for the Haack Parcels as previously developed work plans for the broader LMGC VCP Feasibility Study and LMGC Uplands Cleanup Action Plan include the Haack Parcels. Therefore, the Ecology-approved cleanup strategies referenced in Section 7.0 for the Haack Parcels is the acceptable remedial action.

#### 9.1 Remedial Action Objectives

The primary remedial action objective was to remove, by excavation, all soil from the Haack Parcels containing COCs at concentrations exceeding the CULs.

#### 9.2 Selection of Cleanup Action

A permanent remedy was selected for the Haack Parcels based on best professional judgment and past experience with similar sites where only soil was impacted. The cleanup action selected for the Haack Parcels consisted of excavation and off-site disposal of all soil from the property containing COCs at concentrations exceeding the CULs developed for the Haack Parcels. This cleanup action was selected because it would be highly effective, quick to implement, and would constitute a final, permanent solution for the Haack Parcels.

The selected cleanup action met the requirements of MTCA and, as described in detail below, resulted in a permanent cleanup of the Haack Parcels. The selected cleanup action was evaluated against the threshold requirements in WAC 173-340-360(2)(a) and the other requirements in WAC 173-340-360(2)(b). The threshold requirements include the following:

Protect human health and the environment;



- · Comply with cleanup standards;
- Comply with applicable state and federal laws; and
- Provide for compliance monitoring.

The other requirements include:

- Use permanent solutions to the maximum extent practicable;
- · Provide for a reasonable restoration time frame; and
- Consider public concerns.

The selected cleanup action was determined to meet the "minimum requirements for cleanup actions" specified in WAC 173-340-360(2).

#### 10.0 CLEANUP OF THE PROPERTY

In October 2021, Haack Brothers excavation subcontractor, Glacier Environmental Services, Inc. (Glacier), conducted remedial excavations at Excavation Areas 1 through 6 for the Haack Parcels (Figure 5). The COCs for each Excavation Area are presented below:

- Excavation Area 1 arsenic
- Excavation Area 2 arsenic and lead
- Excavation Area 3 arsenic and lead
- Excavation Area 4 arsenic
- Excavation Area 5 cadmium
- Excavation Area 6 arsenic

The analytical results for the soil samples correlating to each REA are presented in Table 3. Figures 7 through 17 show performance sample locations and analytical results, including final performance samples.

A total of approximately 800 tons of soil were transported from the Haack Parcels for disposal. The interim destination for the excavated soil was the Regional Disposal Intermodal facility in Seattle, Washington. The final destination was the Roosevelt Regional Landfill in Roosevelt, Washington. Copies of the disposal manifests are included as Attachment G.

The completed cleanup action has achieved cleanup standards across the Haack Parcels. No further remedial action is necessary or possible at the Haack Parcels.



#### 10.1 Permitting and Site Preparation

No permits were required for the cleanup action. The cleanup action was incorporated in the development and grading permits that the Haack Brothers acquired through the City of Everett Public Works Department for the development project.

While no permits were required for worker health and safety issues, the cleanup action complied with the provisions of the Washington Industrial Safety and Health Act (WISHA) and the Code of Federal Regulations (CFR), subpart 1910.120 that governs Hazardous Waste Operations and Emergency Response (HAZWOPER).

Before commencement of the cleanup action, it was confirmed that there were no underground utilities in the areas of the remedial excavations using public and private utility locators.

#### 10.2 Remedial Excavation

#### 10.2.1 Excavation Area 1

Excavation Area 1 measured approximately 26 feet by 25 feet centered on the location of boring B-1 and encompassed the northeast corner of Lot 6 of the Haack Parcels (Figure 5). The excavation extended to a depth of 1.5 feet on the northern half of the excavated area and 2.5 feet on the southern half of the excavation. Approximately 70 tons of soil were excavated and transported off site for disposal. A total of six performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. A seventh final performance bottom sample was collected in the southern half of the remedial excavation. The extent of the remedial excavation and the locations of the soil performance and final performance samples are indicated on Figures 7 and 8.

Performance and final performance samples were placed into laboratory-supplied containers and submitted to Friedman and Bruya, Inc. (FBI) of Seattle, Washington, for analysis under standard chain-of-custody protocols. Soil samples were analyzed for arsenic by EPA Method 6020. Arsenic was detected at a concentration greater than the applicable MTCA Method A CUL (20.0 mg/kg) at 27.1 mg/kg at performance sample location B1B-2:1.5 (Table 3, Figure 7). Soils were then excavated 1 foot deeper in the southern half of the excavation area and a final performance sample was collected, B1B-2:2.5 (Figure 8). The five performance samples and the final performance sample did not contain arsenic at concentrations exceeding the MTCA Method A CUL in soil. The cleanup action in Excavation Area 1 successfully addressed the arsenic impacts and the remaining soil complies with the relevant CULs.

#### 10.2.2 Excavation Area 2

Excavation Area 2 measured approximately 52 feet by 25 feet and centered on borings B-14 and B-15 and encompassed the two northwest corner sections of Lot 5 of the Haack Parcels (Figure 5). The excavation extended to a depth of 5 feet in the southwest and northeast corners and 4 feet in the



northwest and southeast corners of the excavation. Approximately 165 tons of soil were excavated and transported off site for disposal. A total of 11 performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. Two additional final performance bottom samples were collected in the southwest and northeast quadrants of the remedial excavation. The extent of the remedial excavation and the locations of the soil performance and final performance samples are indicated on Figures 9 and 10.

Performance and final performance samples were submitted to FBI for analysis under standard chain-of-custody protocols. Soil samples were analyzed for arsenic and lead by EPA Method 6020. Arsenic was detected at concentrations greater than the MTCA Method A CUL at 28.1 and 22.0 mg/kg for bottom samples B14B-1:4 and B15B-2:4, respectively (Table 3, Figure 9). Soils were then excavated 1 foot deeper in the areas of exceedance and final performance samples were collected, samples B14B-1:5 and B15B-2:5 (Figure 10). The other nine performance samples and two final performance samples 2 did not contain the COCs at concentrations exceeding the MTCA Method A CUL in soil. The cleanup action in Excavation Area 3 successfully addressed the arsenic and lead impacts and the remaining soil complies with the relevant CULs.

#### 10.2.3 Excavation Area 3

Excavation Area 3 consists of three areas, each approximately 26 feet by 25 feet, centered on borings B-11, B-19, and B-21. The excavation encompassed two obliquely connected sections within the east side of Lot 5 and one section in the northeast corner of Lot 4 of the Haack Parcels (Figure 5). The excavation extended to a depth of 4 feet in each of the three sections. Approximately 270 tons of soil were excavated and transported off site for disposal. A total of 18 performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. Two additional final performance sidewall samples were collected along the north wall of the B-19 section and along the south wall of the B-21 section. The extent of the remedial excavation and the locations of the soil performance and final performance samples are indicated on Figures 11 and 12.

Performance and final performance samples were submitted to FBI for analysis under standard chain-of-custody protocols. Soil samples were analyzed for arsenic and lead by EPA Method 6020. Arsenic was detected at concentrations greater than the MTCA Method A CUL at 110, 23.8, and 26.6 mg/kg for sidewall samples B19SW-N:3, B21SW-S:3, and B21SW-E:3, respectively (Table 3, Figure 11). Sample B21SW-E:3 was not over excavated since the sample location is at the Property boundary. The north sidewall from section B-19 and south sidewall from section B-21 were excavated an additional 1 foot in their respective directions and final performance samples were collected (Figure 12). The remaining 15 performance samples and two final performance samples did not contain the COCs at concentrations exceeding the MTCA Method A CUL in soil. The cleanup action in Excavation Area 3 successfully addressed the arsenic and lead impacts and remaining soil complies with the relevant CULs.



#### 10.2.4 Excavation Area 4

Excavation Area 4 measured approximately 52 feet by 25 feet centered on borings B-24 and B-25 and encompassed the two northwest corner sections of Lot 4 of the Haack Parcels (Figure 5). The excavation extended to a depth of 3.5 feet in the northwest corner, 4.5 feet in the southwest corner, and 6 feet along the eastern half of the excavation. Approximately 165 tons of soil were excavated and transported off site for disposal. A total of 11 performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. One additional final performance bottom sample was collected in the southwest quadrant of the excavation. The extent of the remedial excavation and the locations of the soil performance and final performance samples are indicated on Figures 13 and 14.

Performance and final performance samples were submitted to FBI for analysis under standard chain-of-custody protocols. Soil samples were analyzed for arsenic by EPA Method 6020. Arsenic was detected at a concentration greater than the MTCA Method A CUL in soil at 24.8 mg/kg for bottom sample B25B-2:3.5 (Table 3; Figure 13). Soils at this location were excavated one foot deeper and the final performance sample B25B-2:4.5 was collected (Figure 14). The other 10 performance samples and one final performance sample did not contain the COCs at concentrations exceeding the MTCA Method A CUL in soil. The cleanup action in Excavation Area 4 successfully addressed the arsenic impacts and remaining soil complies with relevant CULs.

#### 10.2.5 Excavation Area 5

Excavation Area 5 measured approximately 26 feet by 25 feet centered on boring B-41 location and encompassed the northeast corner of Lot 2 of the Haack Parcels (Figure 5). The excavation extended to a depth of 3.5 feet across the excavation boundary. Approximately 66 tons of soil were excavated and transported off site for disposal. A total of six performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. The extent of the remedial excavation and the locations of the soil performance samples are indicated on Figure 15.

Performance samples were placed into laboratory-supplied containers and submitted to FBI for analysis under standard chain-of-custody protocols. Soil samples were analyzed for cadmium by EPA Method 6020. Cadmium was not detected at concentrations greater than the corresponding MTCA Method A CUL in soil. The cleanup action Excavation Area 5 has successfully addressed the cadmium impacts and the remaining soil complies with the relevant CULs.

#### 10.2.6 Excavation Area 6

Excavation Area 6 measured approximately 26 feet by 25 feet centered on boring B-56 location and encompassed the northwest corner of Lot 1 of the Haack Parcels (Figure 5). The excavation extended to a depth of 4 feet across the excavation boundary. Approximately 69 tons of soil were excavated and transported off site for disposal. A total of six performance soil samples were collected from the mid-point of each sidewall and the bottom of the remedial excavation. One additional final performance sidewall



sample was collected along the north wall of the B-56 section. The extent of the remedial excavation and the locations of the soil performance and final performance samples are indicated on Figures 16 and 17.

Performance and final performance samples were submitted to FBI for analysis under standard chain-of-custody protocols. Soil samples were analyzed for arsenic by EPA Method 6020. Arsenic was detected at a concentration greater than the MTCA Method A CUL at 26.3 mg/kg for the north sidewall sample B56SW-N:3 (Table 3, Figure 16). The northern wall was over excavated an additional 1 foot and final performance sample B56SW2-N:3 was collected (Figure 17). The other five performance samples and one final performance sample did not contain the COCs at concentrations exceeding the MTCA Method A CUL in soil. The cleanup action in Excavation Area 6 successfully addressed the arsenic impacts and the remaining soil complies with the relevant CULs.

The completed cleanup action has achieved cleanup standards throughout the Haack Parcels. No further remedial action is necessary or possible for the Haack Parcels.

#### 10.3 Waste Designation and Disposal

Soil excavated from the Haack Parcels were transported under a profile as non-hazardous material. The interim destination was the Regional Disposal Intermodal facility in Seattle, Washington. The final destination was the Roosevelt Regional Landfill in Roosevelt, Washington. Laboratory analytical results for samples used for waste profiling are provided in Table 3. The soil disposal weight tickets are included as Attachment G.

#### 10.4 Health and Safety

The cleanup action was conducted in accordance with a site-specific Health and Safety Plan (HASP) and applicable state and federal regulations governing worker health and safety. TRC prepared the HASP in accordance with the requirements of the Occupational Safety and Health Administration (OSHA) and the WISHA standards for hazardous waste site operations (29 CFR 1910.120 and WAC 296-62 Part P). The HASP established the general health and safety practices for TRC personnel performing the cleanup action. Implementation of this level of on-site health and safety monitoring is considered adequate to meet the requirements of WAC 173-340-410(1)(a) for the following reasons:

- Access to the remedial excavations was limited to authorized personnel. Personnel
  participating in remedial activities were required to be 40-hour HAZWOPER certified.
- The field monitoring and mitigation measures called for in the HASP were protective of onsite worker health and were adequate to protect the health of construction workers on other portions of the property.
- The remedial work was conducted in accordance with applicable OSHA and WISHA regulations.



> Health risks associated with long-term exposures to relatively low concentrations of COCs at the Site were not a significant concern.

TRC conducted protection monitoring during implementation of the cleanup action, in accordance with WAC 173-340-410(1)(a) and the HASP, to ensure worker safety and to confirm that human health was adequately protected.

#### 11.0 CONCLUSIONS

The following conclusions are supported by the results of the completed cleanup action:

- The nature and extent of the COCs at the Haack Parcels were fully characterized through historical environmental investigations and additional sampling conducted during the cleanup action.
- The apparent source of the COCs is the ASARCO ESP.
- Shallow soil is the only medium of concern at the Haack Parcels. Shallow groundwater is not
  present at the Haack Parcels and impacts have no potential to impact groundwater in the
  future.
- Approximately 800 tons (approximately 594 cubic yards) of soil were excavated and transported off site for final disposal at the Roosevelt Regional Landfill in Roosevelt, Washington.
- The cleanup action constitutes a permanent solution for the Haack Parcels because no COCs remain in soil at the Haack Parcels at concentrations exceeding MTCA Method A CULs. The cleanup action has achieved cleanup standards throughout the Haack Parcels.
- No further remedial action is necessary or possible at the Haack Parcels.

#### 12.0 LIMITATIONS

To the extent that preparation of this CAR has required the application of best professional judgment and the employment of scientific principles, certain results of this work have been based on subjective interpretation. TRC makes no warranties, express or implied including and without limitation warranties as to merchantability or fitness for a particular purpose. The information provided in this CAR is not to be construed as legal advice.

This CAR was prepared solely for Haack Brothers and its affiliates, partners, and advisors, and the contents of this CAR may not be used or relied upon by any other person without the express written consent and authorization of TRC.



#### 13.0 BIBLIOGRAPHY

Legion Memorial Golf Course. 2019. Property Sale Notification, Legion Lots 1 through 4, 144 West Marine View Drive/419 Rockefeller Avenue, Everett, Washington.18 September.

Washington State Department of Ecology (Ecology). 2017. Scope of Work, Task Work Assignment, Everett Smelter Uplands Project, Residential Sampling, Fiscal Year 2018-2019.



**Tables** 

# Table 1 Test Pit Soil Analytical Results Cleanup Action Report

## Haack Brother Homes Legion Lots Parcels 413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample Del	Sample	pth Sample	Total Metals <sup>a</sup>		
		Depth (feet)		Arsenic	Cadmium	Lead
TP-1	TP-1:4	4	12/10/2019	3.32	<1	4.8
117-1	TP-1:5.5	5.5	12/10/2019	4.05	<1	5.79
TD 0	TP-2:4.5	4.5	12/10/2019	8.16	<1	7.8
TP-2	TP-2:5.5	5.5	12/10/2019	10.6	<1	9.26
TP-3	TP-3:5.5	5.5	12/10/2019	5.86	<1	6.91
117-3	TP-3:7	7	12/10/2019	8.94	<1	9.58
TD 4	TP-4:4.5	4.5	12/10/2019	12.5	<1	17.8
TP-4	TP-4:5.5	5.5	12/10/2019	4.0	<1	3.96
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses <sup>b</sup>			20	2	250	

#### Notes:

All results presented in milligrams per kilogram (mg/kg).

**Bold** Bold results exceed the laboratory reporting limit.

- Result is less than the laboratory method detection limit.
- a Analyzed by EPA Method 6020B.
- b Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900.



Sample	Sample	Sample Depth	Sample	Total Metals <sup>a</sup>			
Location	ID	(feet)	Date	Arsenic	Cadmium	Lead	
B-1	B-1:0.5	0.5	1/25/2021	27.0	<1	66.1	
D-1	B-1:2	2	1/25/2021	11.1	<1	11.2	
Б.О	B-2:0.5	0.5	1/25/2021	16.5	<1	39.6	
B-2	B-2:2 B-2:2 DUP-1	2 2	1/25/2021	10.4 12.6	<1 <1	8.89	
	B-2.2 DUP-1	0.5	1/25/2021 1/25/2021	15.4	<1	11.0 26.5	
B-3	B-3:2	2	1/25/2021	11.3	<1	10.3	
	B-4:0.3	0.3	1/25/2021	<5	<1	4.82	
B-4	B-4:0.5	0.5	1/25/2021	8.13	<1	10.2	
	B-4:2.5	2.5	1/25/2021	12.1	<1	9.48	
	B-5:0.3	0.3	1/25/2021	6.03	<1	6.59	
B-5	B-5:1	1	1/25/2021	10.2	<1	59.6	
	B-5:3 B-5:3 DUP-2	3 3	1/25/2021 1/25/2021	12.1 12.5	<1 <1	11.4 13.4	
	B-5.3 DUP-2 B-6:0.5	<u></u> 0.5	1/25/2021	<b>12.5</b> <5	<1	5.16	
	B-6:2	2	1/25/2021	<5	<1	4.24	
B-6	B-6:4	4	1/25/2021	18.2	· <1	54.4	
	B-6:6	6	1/25/2021	7.43	<1	8.57	
	B-7:0.5	0.5	1/25/2021	5.8	<1	6.18	
	B-7:2	2	1/25/2021	<5	<1	4.62	
B-7	B-7:2 DUP-3	2	1/25/2021	<5	<1	4.46	
	B-7:4	4	1/25/2021	19.0	<1	57.4	
	B-7:6	6	1/25/2021	5.71	<1	9.87	
	B-8:0.5 B-8:2	0.5 2	1/25/2021 1/25/2021	<5 <5	<1 <1	4.49 4.66	
B-8	B-8:3	3	1/25/2021	9.97	<1	24.4	
	B-8:5	<u>5</u>	1/25/2021	11.4	<1	10.7	
	B-9:0.3	0.3	1/25/2021	<5	<1	5.25	
D O	B-9:0.3 DUP-4	0.3	1/25/2021	6.04	<1	14.8	
B-9	B-9:1	1	1/25/2021	15.9	<1	156	
	B-9:3	3	1/25/2021	12.6	<1	10.1	
	B-10:0.3	0.3	1/25/2021	<5	<1	7.38	
B-10	B-10:1	1	1/25/2021	8.71	<1	17.3	
	B-10:3	3	1/25/2021	11.3	<1	9.86	
	B-11:0.5 B-11:1	0.5 1	1/25/2021 1/25/2021	<5 <b>5.54</b>	<1 <1	5.35 14.2	
B-11	B-11:3	3	1/25/2021	8.82	<1	331	
	B-11:3 DUP-5	3	1/25/2021	8.74	<1	188	
	B-12:0.5	0.5	1/25/2021	<5	· <1	4.55	
B-12	B-12:1	1	1/25/2021	5.31	<1	22.9	
	B-12:3	3	1/25/2021	8.29	<1	176	
	B-13:0.5	0.5	1/26/2021	<5	<1	4.88	
	B-13:1.5	1.5	1/26/2021	<5	<1	4.45	
B-13	B-13:1.5 DUP-6	1.5	1/26/2021	<5	<1	3.96	
	B-13:2	<u>2</u> 4	1/26/2021	7.58	<1 <1	44.7	
	B-13:4 B-14:0.5	0.5	1/26/2021 1/26/2021	<b>12.1</b> <5	<1	9.09 5.04	
	B-14:2	2	1/26/2021	<5	<1	4.74	
B-14	B-14:3	3	1/26/2021	20.6	<1	54	
	B-14:5	5	1/26/2021	11.4	<1	11	
	B-15:0.5	0.5	1/26/2021	<5	<1	4.8	
B-15	B-15:2	2	1/26/2021	<5	<1	3.78	
5.10	B-15:3	3	1/26/2021	28.2	1.09	947	
	B-15:5	5	1/26/2021	12.6	<1	13	
	B-16:0.5	0.5	1/26/2021	5.02	<1	4.72	
B-16	B-16:2 B-16:2.5	2.5	1/26/2021 1/26/2021	<5 <b>16.6</b>	<1 <1	8.51 55	
5.10	B-16:5	5	1/26/2021	<5	<1	8.02	
	B-16:5 DUP-7	5	1/26/2021	6.99	<1	13.5	
	B-17:0.5	0.5	1/26/2021	5.03	<1	5.73	
B-17	B-17:2	2	1/26/2021	<b>&lt;</b> 5	<1	4.54	
D-1 <i>1</i>	B-17:3	3	1/26/2021	17.3	<1	46.9	
	B-17:5	5	1/26/2021	10.0	<1	8.66	
	B-18:0.5	0.5	1/26/2021	5.0	<1	4.92	
B-18	B-18:1.8	1.8	1/26/2021	<5	<1	4.76	
B-18	B-18:2	2	1/26/2021	16.5	1.28	109	
D-1ŏ	B-18:4.2 B-19:0.5	4.2 0.5	1/26/2021 1/26/2021	<5 <b>6.31</b>	<1 <1	5.15 8.77	
	B-19:0.5 DUP-8	0.5	1/26/2021	<b>6.3</b> 1	<1	4.25	
B-19	B-19.0.5 DOP-6	1	1/26/2021	<5	<1	12.1	
	B-19:3	3	1/26/2021	33.5	1.32	153	
	B-20:05	0.5	1/26/2021	<5	<1	3.51	
B-20	B-20:1	1	1/26/2021	8.48	<1	10.4	
	B-20:3	3	1/26/2021	12.1	<1	12.1	



Sample	i Samnia i	Sample	· I Sample I	Total Metals <sup>a</sup>			
Location	ID	Depth (feet)	Date	Arsenic	Cadmium	Lead	
	B-21:0.5	0.5	1/26/2021	<5	<1	3.9	
B-21	B-21:2	2	1/26/2021	<5	<1	2.68	
	B-21:3 B-21:5	3 5	1/26/2021 1/26/2021	29.8 7.54	<1 <1	439 8.44	
	B-22:0.5	0.5	1/26/2021	<5	<1	4	
B-22	B-22:1.5	1.5	1/26/2021	<b>&lt;</b> 5	<1	6.18	
D-22	B-22:2.5	2.5	1/26/2021	<5	<1	10.8	
	B-22:4	4	1/26/2021	16.5	<1	101	
	B-23:0.5 B-23:1.5	0.5 1.5	1/26/2021 1/26/2021	<b>6.11</b> <5	<1 <1	5.9 4.04	
B-23	B-23:1.5 DUP-9	1.5	1/26/2021	<5	<1	5.09	
	B-23:2	2	1/26/2021	<5	<1	12.5	
	B-23:4	4	1/26/2021	17.1	<1	85.2	
	B-24:0.5 B-24:2	0.5	1/26/2021 1/26/2021	6.87 5.36	<1 <1	5.96 4.69	
B-24	B-24.2 B-24:3	3	1/26/2021	9.80	<1	9.89	
	B-24:5	5	1/26/2021	26.3	<1	43.6	
	B-24:5 DUP-10	5	1/26/2021	5.42	<1	6.80	
	B-25:0.5	0.5	1/26/2021	<5	<1	4.05	
B-25	B-25:2	2	1/26/2021	<5 <b>20.5</b>	<1	5.32	
	B-25:2.5 B-25:5	2.5 5	1/26/2021 1/26/2021	<b>20.5</b> <5	<1 <1	37.1 6.48	
	B-26:0.5	0.5	1/27/2021	7.71	<1	7.57	
B-26	B-26:2	2	1/27/2021	5.22	<1	5.21	
D-20	B-26:2.5	2.5	1/27/2021	6.36	<1	18.2	
	B-26:5	5	1/27/2021	7.2	<1	6.34	
	B-27:0.5 B-27:2	0.5	1/27/2021 1/27/2021	<b>5.08</b> <5	<1 <1	5.16 5.24	
B-27	B-27:2 DUP-11	2	1/27/2021	<5	<1	4.31	
	B-27:4	4	1/27/2021	14.9	<1	32.5	
	B-27:6	6	1/27/2021	6.32	<1	6.49	
	B-28:0.5	0.5	1/27/2021	<5 -5	<1	5.22	
B-28	B-28:1.5 B-28:2	1.5 2	1/27/2021 1/27/2021	<5 <5	<1 <1	5.7 5.48	
	B-28:4	4	1/27/2021	10.4	<1	15.2	
	B-29:0.5	0.5	1/27/2021	<5	<1	4.31	
B-29	B-29:1	1	1/27/2021	8.36	<1	16.3	
2 20	B-29:3 DUP-12	3	1/27/2021	3.47	<1	3.21	
	B-29:3 B-30:0.5	3 0.5	1/27/2021 1/27/2021	<b>14.0</b> <5	<1 <1	38.4 2.64	
	B-30:0	2	1/27/2021	7.12	<1	7.04	
B-30	B-30:3	3	1/27/2021	<5	<1	7.65	
	B-30:5	5	1/27/2021	10.1	<1	10.2	
D 04	B-31:0.5	0.5	1/27/2021	<5	<1	5.32	
B-31	B-31:1 B-31:3	<u> </u>	1/27/2021 1/27/2021	10.9 6.06	<1 <1	24.6 6.84	
	B-32:0.5	0.5	1/27/2021	<5	<1	4.93	
B 33	B-32:2	2	1/27/2021	5.36	<1	4.81	
B-32	B-32:3	3	1/27/2021	<5	<1	3.97	
	B-32:5	5	1/27/2021	<5	<1	2.93	
	B-33:0.5 B-33:1	0.5 1	1/27/2021 1/27/2021	<5 <5	<1 <1	2.95 3.35	
B-33	B-33:1 DUP-13	1	1/27/2021	<5	<1	4.03	
	B-33:3	3	1/27/2021	<5	<1	2.79	
	B-34:0.5	0.5	1/27/2021	9.13	<1	9.63	
D 04	B-34:0.5 DUP-14	0.5	1/27/2021	10.1	<1	8.76	
B-34	B-34:1.5 B-34:2.5	1.5 2.5	1/27/2021 1/27/2021	<5 <b>12.2</b>	<1 <1	4.54 8.87	
	B-34:4	4	1/27/2021	5.65	<1	5.5	
	B-35:0.5	0.5	1/27/2021	<5	<1	4.57	
B-35	B-35:2	2	1/27/2021	<5	<1	4.44	
	B-35:3	3	1/27/2021	<5 0.00	<1	9.02	
	B-35:5 B-36:0.5	5 0.5	1/27/2021 1/27/2021	9.69 5.34	<1 <1	7.45 4.93	
5	B-36:2	2	1/27/2021	<b>5.34</b> <5	<1	5.94	
B-36	B-36:4	4	1/27/2021	9.93	<1	27.1	
	B-36:6	6	1/27/2021	6.92	<1	7.04	
	B-37:0.5	0.5	1/27/2021	6.41	<1	6.12	
B-37	B-37:2.5 B-37:4	2.5 4	1/27/2021 1/27/2021	<b>7.34</b> <5	<1 <1	6.65 3.23	
וט-טו	B-37:6	6	1/27/2021	14.0	<1	9.46	
	B-37:6 DUP-15	6	1/27/2021	12.4	<1	10.3	
	B-38:0.5	0.5	1/27/2021	<5	<1	5.19	
B-38	B-38:1	1	1/27/2021	<5 -5	<1	4.86	
	B-38:3	3	1/27/2021	<5	<1	2.28	



Sample	Sample	Sample	Sample	Total Metals <sup>a</sup>			
Location	ID	Depth (feet)	Date	Arsenic	Cadmium	Lead	
	B-39:0.5	0.5	1/28/2021	<5	<1	3.91	
D 00	B-39:2	2	1/28/2021	<b>&lt;</b> 5	<1	4.16	
B-39	B-39:2 DUP-16	2	1/28/2021	<5	<1	4.16	
	B-39:5	5	1/28/2021	9.41	<1	18.4	
	B-39:7 B-40:0.5	7 0.5	1/28/2021 1/28/2021	8.11 10.5	<1 <1	5.98 14.3	
B-40	B-40.0.3 B-40:2	2	1/28/2021	7.62	<1	8.4	
	B-40:3.5	3.5	1/28/2021	5.53	<1	9.04	
	B-40:5.5	5.5	1/28/2021	12.3		10.7	
	B-41:0.5	0.5	1/28/2021	<5	<1	4.16	
	B-41:1.5	1.5	1/28/2021	7.01	<1	8.98	
B-41	B-41:2.5	2.5	1/28/2021	13.0	2.04	26.0	
	B-41:5	5	1/28/2021	<5	<1	8.05	
	B-41:5 DUP-17	5	1/28/2021	<5 -15	<1	5.65	
	B-42:0.5 B-42:2	0.5 2	1/28/2021 1/28/2021	<5 <5	<1 <1	3.81 4.44	
B-42	B-42:4.5	4.5	1/28/2021	10.9	<1	15.9	
	B-42:6	6	1/28/2021	7.13	<1	6.84	
	B-43:0.5	0.5	1/28/2021	<5	<1	4.43	
D 40	B-43:2	2	1/28/2021	<5	<1	8.38	
B-43	B-43:4	4	1/28/2021	11.6	<1	27.9	
	B-43:6	6	1/28/2021	6.53	<1	7.48	
	B-44:0.5	0.5	1/28/2021	13.8	<1	9.37	
B-44	B-44:2	2	1/28/2021	7.34	<1	9.46	
	B-44:4.5	4.5	1/28/2021	<5	<1	2.46	
	B-44:6 B-45:1	6 1	1/28/2021 1/28/2021	8.97 5.02	<1 <1	7.4 5.52	
	B-45:1 DUP-18	1	1/28/2021	<b>5.02</b> <5	<1	4.40	
B-45	B-45:3	3	1/28/2021	5.09	<1	6.03	
2 10	B-45:4	4	1/28/2021	<b>&lt;</b> 5	<1	11.3	
	B-45:6	6	1/28/2021	7.29	<1	5.61	
	B-46:0.5	0.5	1/28/2021	5.16	<1	4.8	
B-46	B-46:2	2	1/28/2021	<5	<1	3.77	
D-40	B-46:3	3	1/28/2021	10.7	<1	31.8	
	B-46:5	5	1/28/2021	<5	<1	7.11	
	B-47:0.5	0.5	1/28/2021	6.81	<1	6.86	
B-47	B-47:0.5 DUP-19 B-47:2	0.5	1/28/2021	5.36	<1 <1	5.41	
D-4 <i>1</i>	B-47:2.5	2.5	1/28/2021 1/28/2021	<b>8.27</b> <5	<1	9.04 4.61	
	B-47:4.5	4.5	1/28/2021	<5	<1	5.81	
	B-48:1	1	1/28/2021	6.85	- <1	7.46	
D 40	B-48:3	3	1/28/2021	<5	<1	4.51	
B-48	B-48:5	5	1/28/2021	6.16	<1	9.77	
	B-48:7	7	1/28/2021	6.19	<1	5.19	
	B-49:1	1	1/28/2021	5.47	<1	5.7	
5.40	B-49:3	3	1/28/2021	<5	<1	6.59	
B-49	B-49:5	5	1/28/2021	5.42	<1	6.1	
	B-49:7 B-49:7 DUP-20	7	1/28/2021 1/28/2021	<5 <b>7.39</b>	<1 <1	4.84 8.66	
	B-50:0.5	0.5	1/28/2021	<b>- 7.39</b> <b>&lt;</b> 5	<1	4.89	
D 50	B-50:2.5	2.5	1/28/2021	6.37	<1	6.99	
B-50	B-50:3.5	3.5	1/28/2021	7.35	<1	10.1	
	B-50:5	5	1/28/2021	6.77	<1	8.01	
	B-51:0.5	0.5	1/28/2021	7.37	<1	6.4	
B-51	B-51:2	2	1/28/2021	<5	<1	2.98	
]	B-51:5	5	1/28/2021	<5 -5	<1	4.23	
	B-51:7	7	1/28/2021	<5 <5	<1 <1	4.94	
B-52	B-52:0.5 B-52:2	0.5 2	1/28/2021 1/28/2021	7. <b>95</b>	<1	3.67 11.7	
	B-52:2 DUP-21	2	1/28/2021	6.59	<1	8.80	
	B-52:4	4	1/28/2021	7.27	<1	10.2	
	B-52:6	6	1/28/2021	<b>&lt;</b> 5	<1	4.84	
	B-53:0.5	0.5	1/28/2021	<5	<1	4.10	
B-53	B-53:2.5	2.5	1/28/2021	7.80	<1	7.89	
D-53	B-53:3.5	3.5	1/28/2021	5.43	<1	5.85	
	B-53:5.5	5.5	1/28/2021	8.76	<1	8.6	
	B-54:0.5	0.5	1/29/2021	<5	<1	6.27	
B-54	B-54:2.5 B-54:2.5 DUP-22	2.5 2.5	1/29/2021 1/29/2021	<5 5.07	<1 <1	4.16	
D-04	B-54:2.5 DUP-22 B-54:4	2.5 4	1/29/2021	<b>5.07</b> <5	<1	4.56 1.97	
	B-54:6	6	1/29/2021	7.44	<1	7.09	
	D 07.0	J	1,20,2021	7.77	7.1	7.00	



Sample	Sample	Sample Depth	Sample	Total Metals <sup>a</sup>			
Location	ID	(feet)	Date	Arsenic	Cadmium	Lead	
	B-55:0.5	0.5	1/29/2021	5.85	<1	6.79	
	B-55:2	2	1/29/2021	5.23	<1	7.2	
B-55	B-55:3	3	1/29/2021	<5	<1	3.09	
	B-55:3 DUP-23	3	1/29/2021	5.01	<1	5.25	
	B-55:5	5	1/29/2021	<5	<1	5.66	
	B-56:0.5	0.5	1/29/2021	<5	<1	4.84	
B-56	B-56:2	2	1/29/2021	<5	<1	5.89	
D-30	B-56:3	3	1/29/2021	42.9	1.26	64.9	
	B-56:5	5	1/29/2021	9.57	<1	7.65	
	B-57:0.5	0.5	1/29/2021	5.58	<1	5.33	
	B-57:1.8	1.8	1/29/2021	5.11	<1	7.67	
B-57	B-57:2	2	1/29/2021	<5	<1	6.65	
	B-57:3.5	3.5	1/29/2021	12.0	<1	10.7	
	B-57:3.5 DUP-24	3.5	1/29/2021	10.8	<1	9.72	
	B-58:0.5	0.5	1/29/2021	8.5	<1	7.68	
B-58	B-58:1	1	1/29/2021	<5	<1	5.99	
	B-58:3	3	1/29/2021	9.30	<1	15.3	
	B-59:0.5	0.5	1/29/2021	5.86	<1	5.44	
B-59	B-59:1.5	1.5	1/29/2021	<5	<1	4.89	
D-99	B-59:2.5	2.5	1/29/2021	8.07	<1	12.9	
	B-59:4.5	4.5	1/29/2021	5.53	<1	6.46	
	B-60:0.5	0.5	1/29/2021	<5	<1	3.44	
B-60	B-60:2	2	1/29/2021	<5	<1	4.24	
	B-60:3	3	1/29/2021	14.3	<1	20.4	
	B-60:5	5	1/29/2021	<5	<1	6.59	
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses <sup>b</sup>				20	2	250	

#### Notes:

All results presented in milligrams per kilogram (mg/kg).

**Bold** Bold results exceed the laboratory reporting limit.

- Shaded results exceed the cleanup level.
- < Result is less than the laboratory method detection limit.
- a Analyzed by EPA Method 6020B.
- b Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900.



	Sample Location	Depth		ample Performance Total Metals <sup>a</sup>								
		(feet)	Date	Sample	Arsenic	Cadmium	Lead	Barium	Chromium	Mercury	Selenium	Silve
	B1B-1:1.5	1.5	10/27/2021	Х	8.45		-					
	B1B-2:1.5	1.5	10/27/2021		27.1							
xcavation Area 1	B1B-2:2.5 B1SW-E:0.5	2.5 0.5	10/29/2021	X	10.1 17.1							
Acavation Alea 1	B1SW-L:0.5	0.5	10/27/2021	X	14.5							
	B1SW-S:0.5	0.5	10/27/2021	X	13.5							
	B1SW-W:0.5	0.5	10/27/2021	Х	9.82							
	B14B-1:4	4	10/27/2021		28.1							
	B14B-1:5	5	10/29/2021	X	3.56							
	B14B-2:4	4	10/27/2021	X	3.28		4.05					<b>-</b> -
	B14SW-E:3 B14SW-N:3	3	10/27/2021	X	4.30 4.74		4.85 					-
	B14SW-S:3	3	10/27/2021	X	4.48							
racyatian Area O	B14SW-W:3	3	10/27/2021	X	14.4							_
cavation Area 2	B15-1:3	3	10/27/2021		34.0	1.43	622	189	27.4	<1	<1	2.′
	B15B-1:4	4	10/29/2021	X	17.5		37.0					
	B15B-2:4	4	10/29/2021		22.0		52.2					
	B15B-2:5	2.5	11/2/2021	X	7.39		4.26					_
	B15SW-N:3 B15SW-S:3	3	10/29/2021	X	3.97 4.94		4.26 21.5					
	B15SW-W:3	3	10/29/2021	X	18.1		119					_
	B11-1:3	3	10/27/2021	X	9.93	<1	24.1	89.6	33.8	<1	<1	<
	B11B-1:4	4	10/28/2021	X			9.30					-
	B11B-2:4	4	10/28/2021	X			6.84					-
	B11SW-E:3	3	10/28/2021	X			5.99					-
	B11SW-N:3	3	10/28/2021	X			4.94					-
	B11SW-S:3 B11SW-W:3	3	10/28/2021	X			5.26 9.49					-
	B19-1:3	3	10/20/2021	^	20.6	 <1	56.0	135	25.3	 <1	 <1	- <
	B19B-1:4	4	10/29/2021	Х	2.48							_
	B19B-2:4	4	10/29/2021	X	4.20							_
	B19SW-E:3	3	10/29/2021	Х	19.6							-
cavation Area 3	B19SW-N:3	3	10/29/2021		110							-
	B19SW2-N:3	3	11/2/2021	X	6.69		-					-
	B19SW-S:3 B19SW-W:3	3	10/29/2021	X	2.39 18.9							-
	B21-1:3	3	10/29/2021	^	28.5	 <1	121	129	30.2	 <1	 <1	- <
	B21B-1:4	4	10/28/2021	Х	3.09		4.88					_
	B21B-2:4	4	10/28/2021	X	12.4		12.6					_
	B21SW-E:3	3	10/28/2021		26.6		92.5			-		_
	B21SW-N:3	3	10/28/2021	X	20.0		202					
	B21SW-S:3	3	10/28/2021		23.8		66.2					
	B21SW2-S:3	3	11/2/2021 10/28/2021	X	<5 <b>17.3</b>		149					_
	B21SW-W:3 B24B-1:6	<u>3</u>	10/20/2021	X	13.3							_
	B24B-1:0 B24B-2:6	6	10/27/2021	X	9.44							
	B24SW-E:5	5	10/27/2021	X	5.63							_
	B24SW-N:5	5	10/27/2021	X	2.15							-
	B24SW-S:5	5	10/27/2021	X	3.79							-
cavation Area 4	B24SW-W:5	5	10/27/2021	X	6.33							_
	B25B-1:3.5 B25B-2:3.5	3.5 3.5	10/29/2021	X	11.9 24.8							-
	B25B-2:3.5 B25B-2:4.5	4.5	11/2/2021	Х	<b>24.8</b> <5							-
	B25SW-N:2.5	2.5	10/29/2021	X	4.86		<del>-</del>					_
	B25SW-S:2.5	2.5	10/29/2021	X	14.1							_
	B25SW-W:2.5	2.5	10/29/2021	X	4.52							_
	B41B-1:3.5	3.5	10/27/2021	X		<1						-
[	B41B-2:3.5	3.5	10/27/2021	X		1.06						-
cavation Area 5	B41SW-E:2.5 B41SW-N:02.5	2.5 2.5	10/27/2021	X	<u></u>	<1 <1	<u></u>			<b></b>		-
-	B41SW-S:2.5	2.5	10/27/2021	X		<1						-
	B41SW-W:2.5	2.5	10/27/2021	X		<1						
Excavation Area 6	B56B-1:4	4	10/28/2021	X	6.23					-		_
	B56B-2:4	4	10/28/2021	X	15.4							_
	B56SW-E:3	3	10/28/2021	Х	10.7		-					
	B56SW-N:3	3	10/28/2021		26.3							
	B56SW-S:3 B56SW-W:3	3	10/28/2021 10/28/2021	X	6.73 11.9							-
<u></u>	B56SW2-N:3	3	11/2/2021	X	1.08							_
14704	Method A Soil Clean		, _, _ 0_ 1					†	1			40

### Notes:

All results presented in milligrams per kilogram (mg/kg).

**Bold** Bold results exceed the laboratory reporting limit.

- Shaded results exceed the cleanup level.
- Result is less than the laboratory method detection limit. Indicates sample was not analyzed for this analyte.
- Analyzed by EPA Method 6020B.
- Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900. b
- MTCA Method B Soil Cleanup Level from Cleanup Levels and Risk Calculations (CLARC) database.



# Table 4 Toxicity Characteristic Leaching Procedure (TCLP) Metals Analytical Results

### Cleanup Action Report

## Haack Brother Homes Legion Lots Parcels 413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample Depth	Sample	TCLP Metals	
Sample Location	(feet)	Date	Lead	
B21-1:3	3	10/27/2021	<1	
B15-1:3	3	10/27/2021	<1	

#### Notes:

All results presented in milligrams per liter (mg/L).

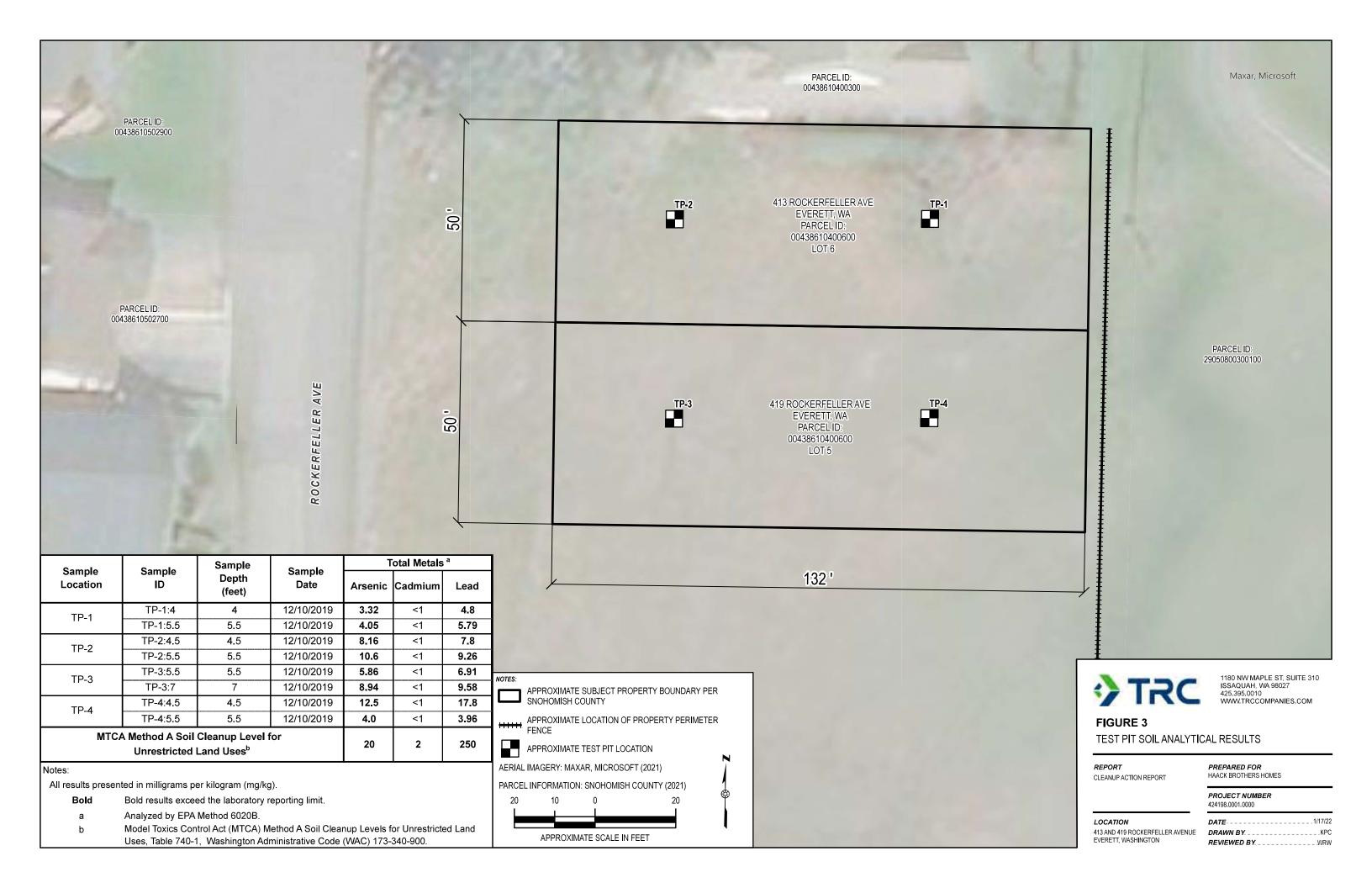
- < Result is less than the laboratory method detection limit.
- a Analyzed by EPA Method 1311.



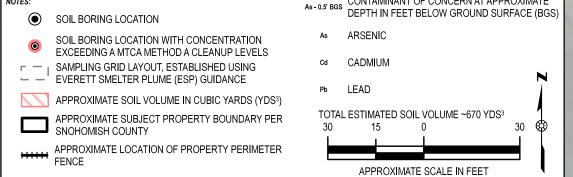
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ADDITIONAL SUB-SURFACE INVESTIGATION IN SOIL ANALTICAL RESULTS

LOCATION

CLEANUP ACTION REPORT

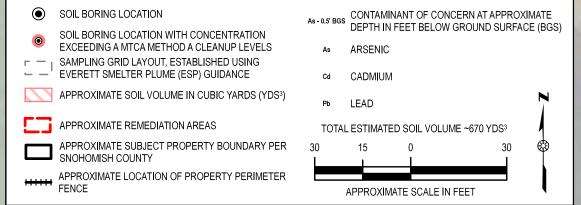
413 AND 419 ROCKERFELLER AVENUE EVERETT, WASHINGTON

PREPARED FOR HAACK BROTHERS HOMES

PROJECT NUMBER 424198.0001.0000

DRAWN BY. REVIEWED BY.





REPORT PREPARED FOR
CLEANUP ACTION REPORT HAACK BROTHERS HOMES

413 AND 419 ROCKERFELLER AVENUE

LOCATION

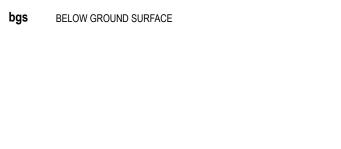
 PROJECT NUMBER

 424198.0001.0000

 DATE
 ... 1/10/22

 DRAWN BY.
 ... KPC

Primary Sources	Contaminants of Potential Concern	Media of Concern	Transport Mechanisms	Exposure Media	Exposure Pathway	Commercial Industrial Construction Worker Residential/ Recreational TEE Receptors
		X Surface Soil (0–2 feet bgs)	X Direct release to soil X Migration to subsurface soil Migration to groundwater Volatilization X Runoff or erosion	X Soil	X Ingestion X Dermal Exposure	
	Arsenic, Cadmium, and Lead	X Soil (> 2 feet bgs)	X Utake by plant or animal Other (list)  X Direct release to soil Migration to groundwater Volatilization	Groundwater	Dermal Exposure	
Release of various metals from Everett Smelter Plume processes		Groundwater	Other (list)  Release to groundwater  Volatilization  Future migration to surface water  Future migration to sediment	Air	Inhalation Ingestion	
	X Adsorbed onto soil Dissolved in water	Surface Water	Uptake by plant or animal Other (list) Release to surface water Volatilization	Surface Water	Dermal Contact  Ingestion	
	Non-aqueous phase	Sediment	Sedimentation Uptake by plant or animal Other (list) Release to surface water	Sediment	Dermal Contact	
			Resuspension or erosion Uptake by plant or animal Other (list)	Indoor Air	Inhalation	





# FIGURE 6

CONCEPTUAL SITE MODEL

REPORT

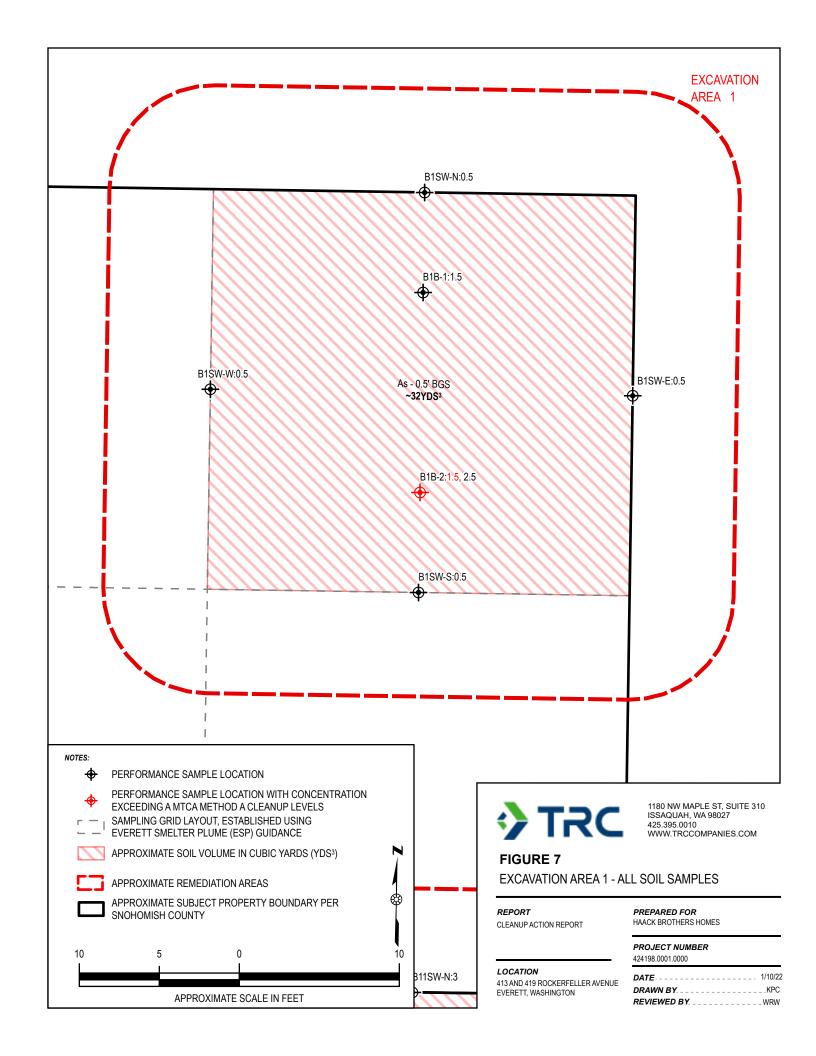
CLEANUP ACTION REPORT

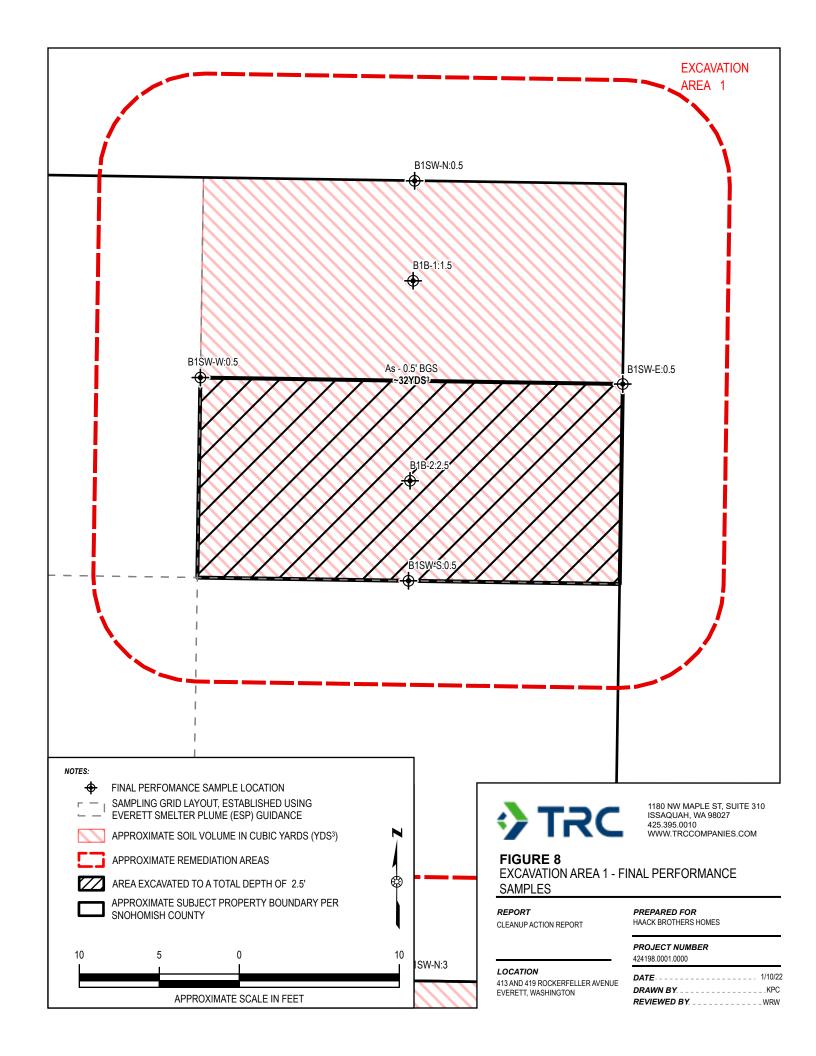
PREPARED FOR HAACK BROTHERS HOMES

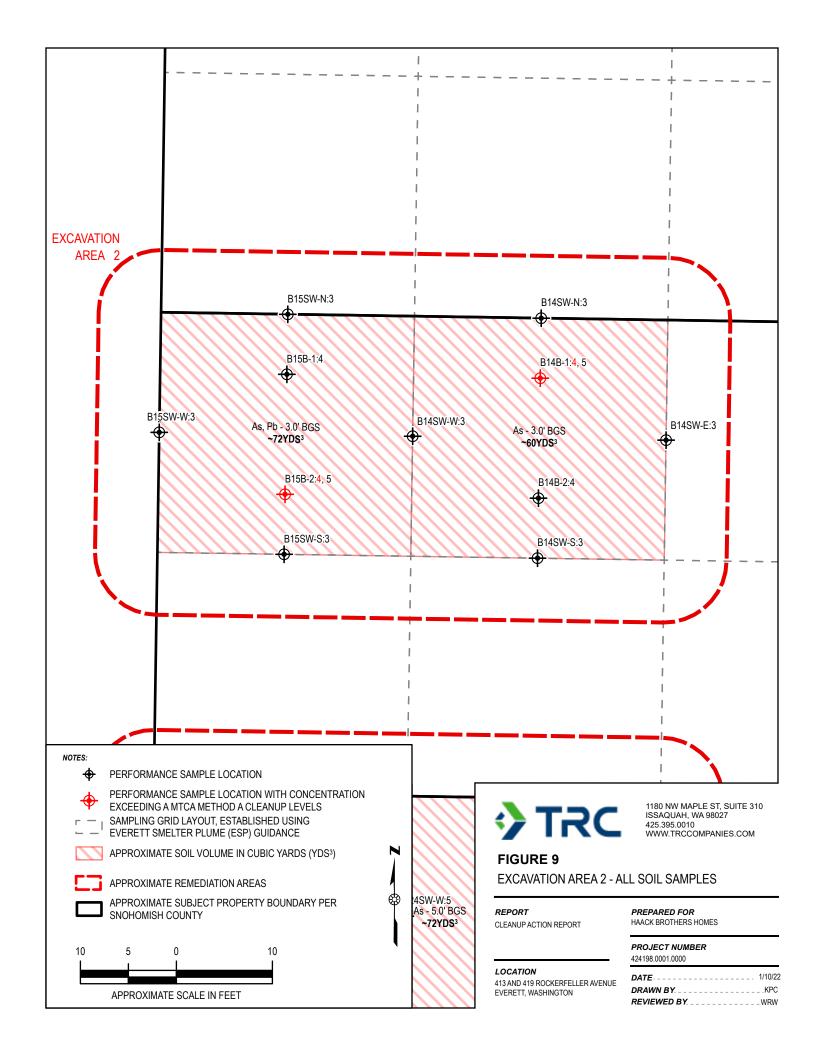
**PROJECT NUMBER** 424198.0001.0000

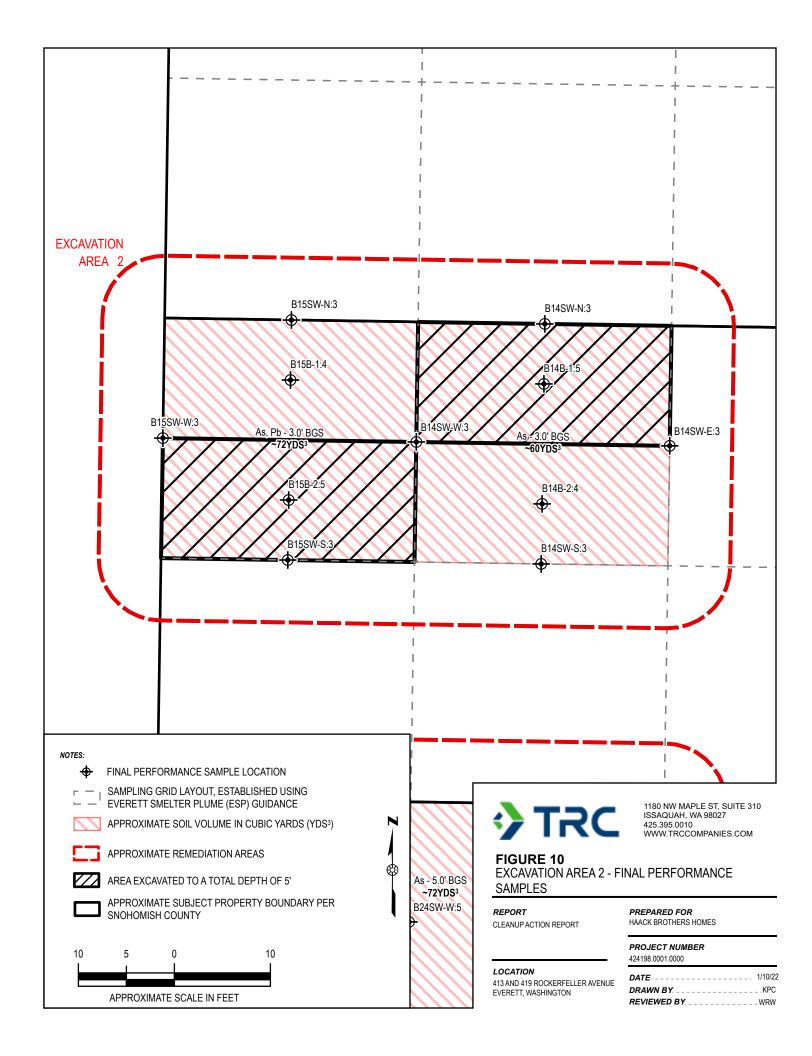
LOCATION

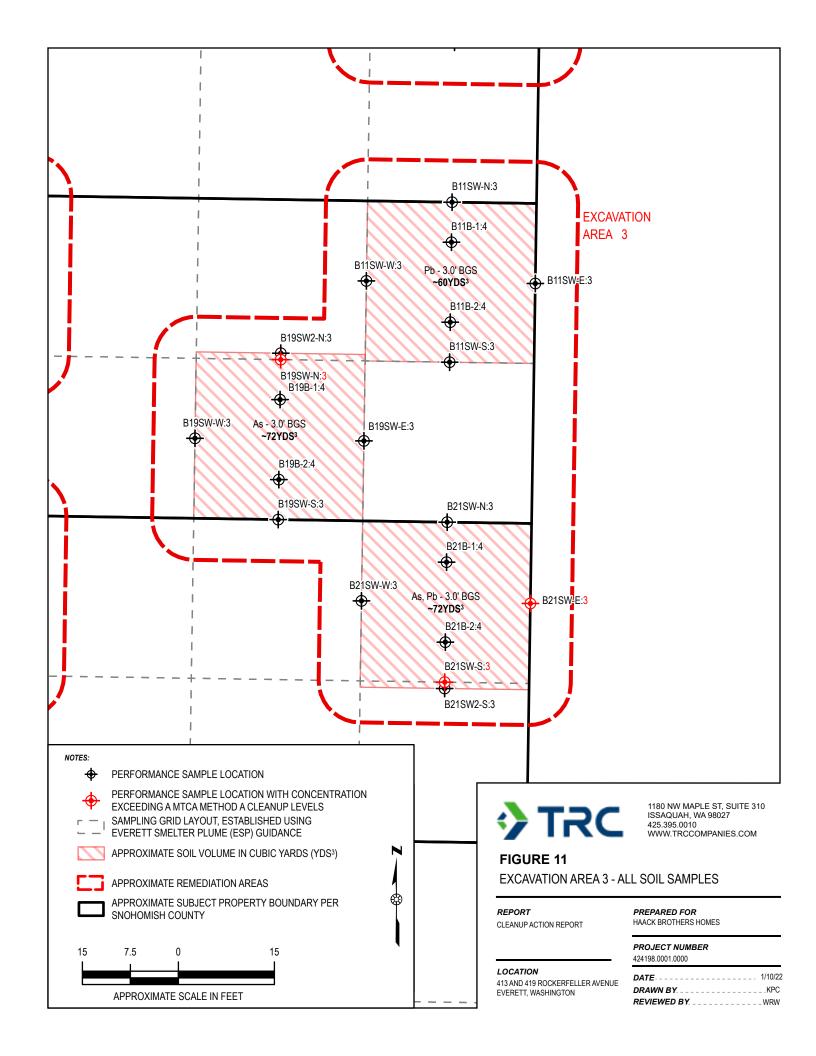
413 AND 419 ROCKERFELLER AVENUE DRAWN BY KPC
EVERETT, WASHINGTON REVIEWED BY WRW 

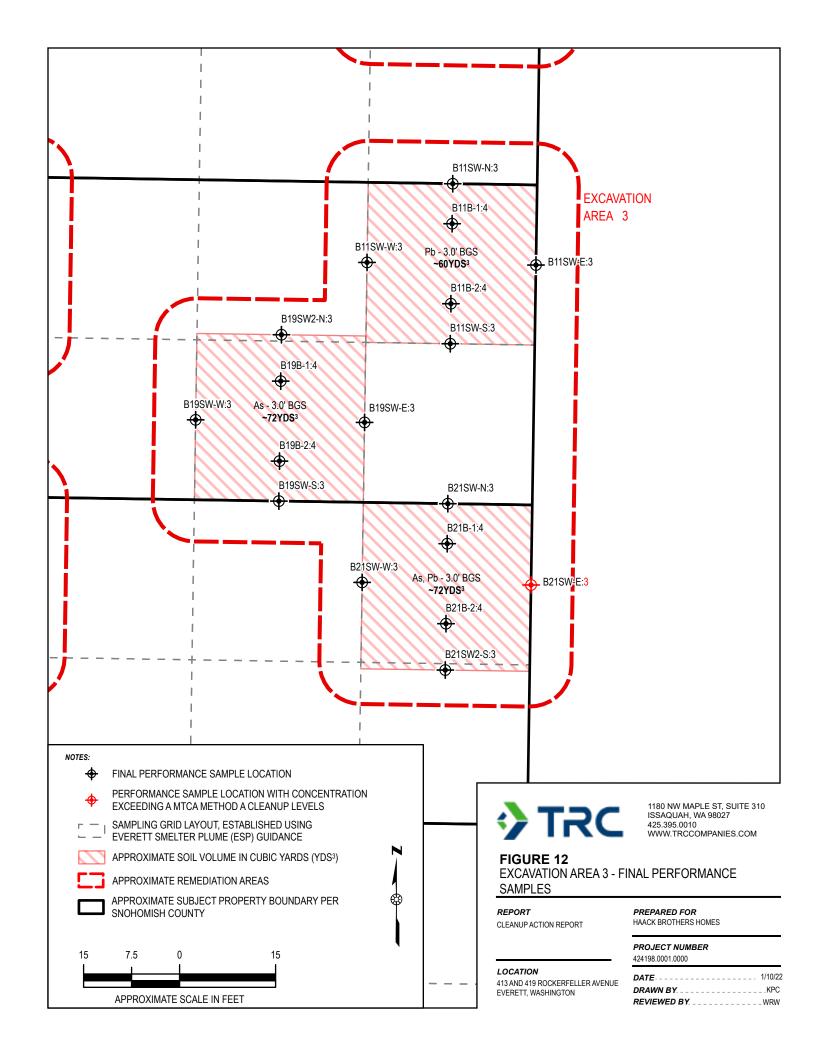


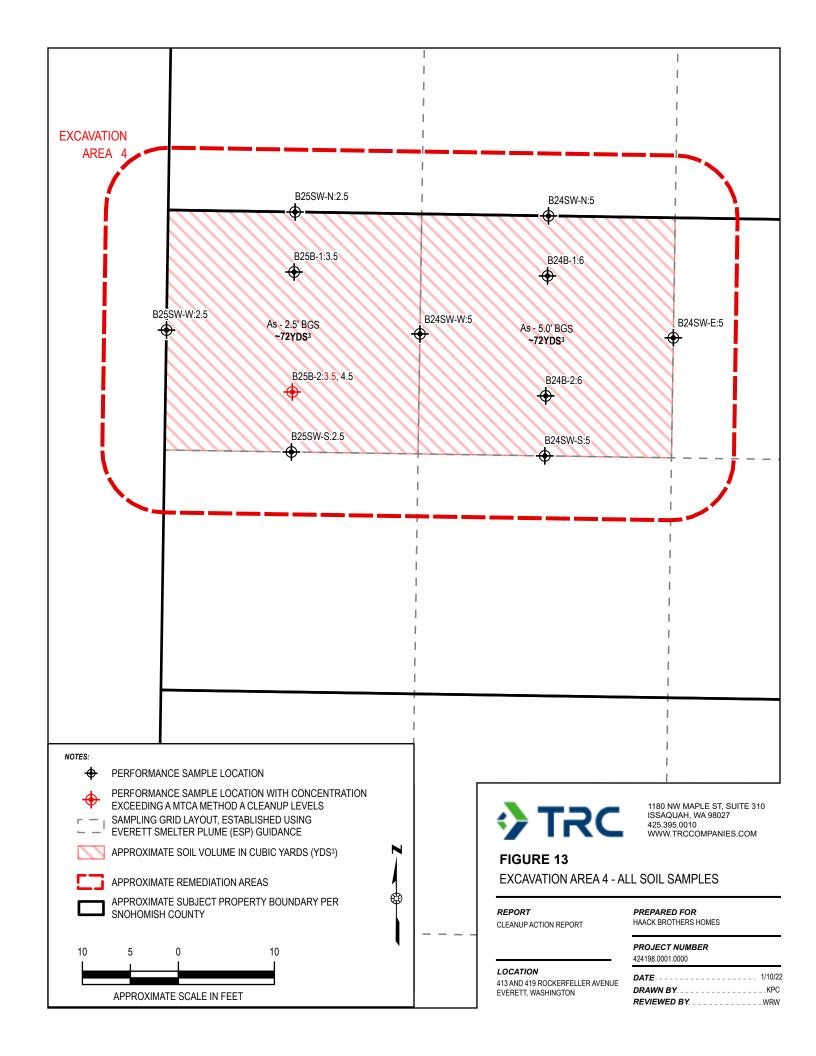


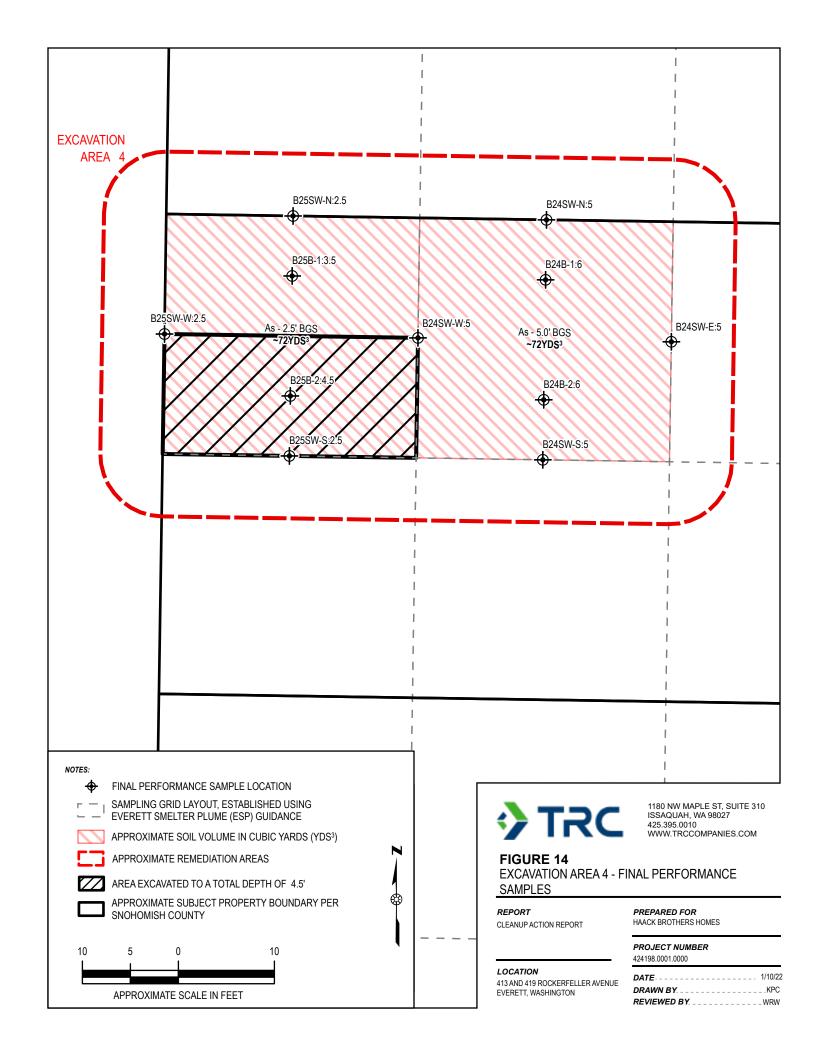


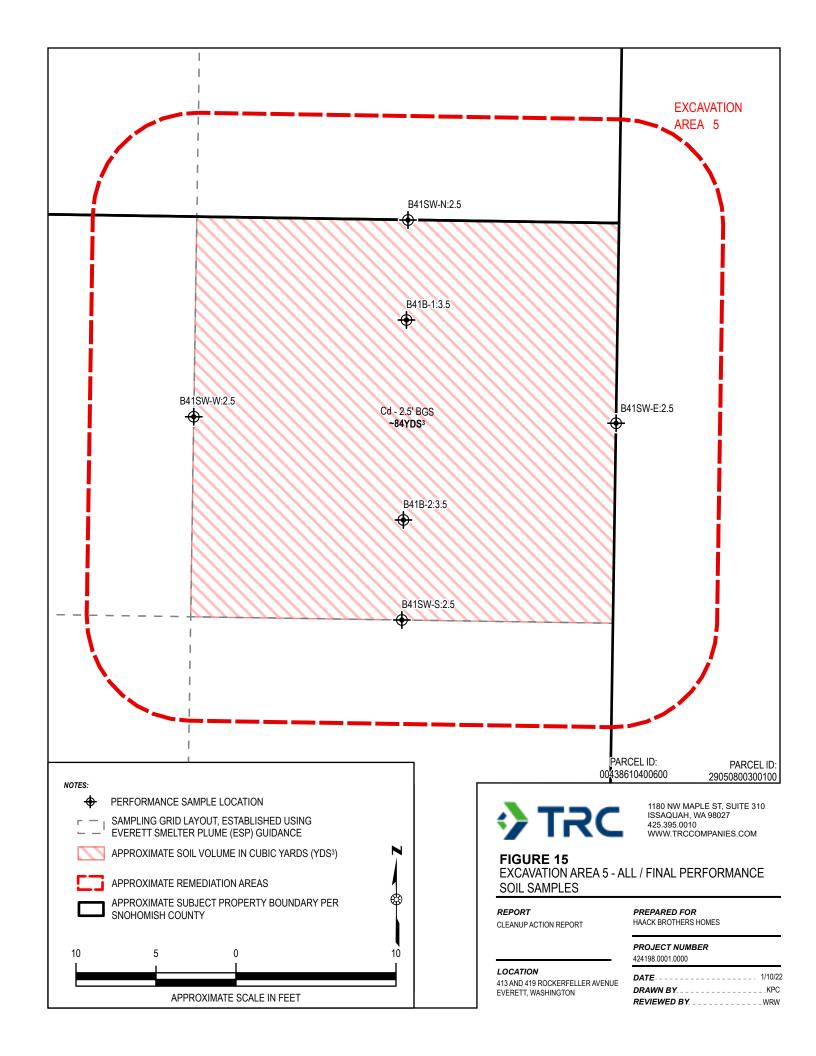


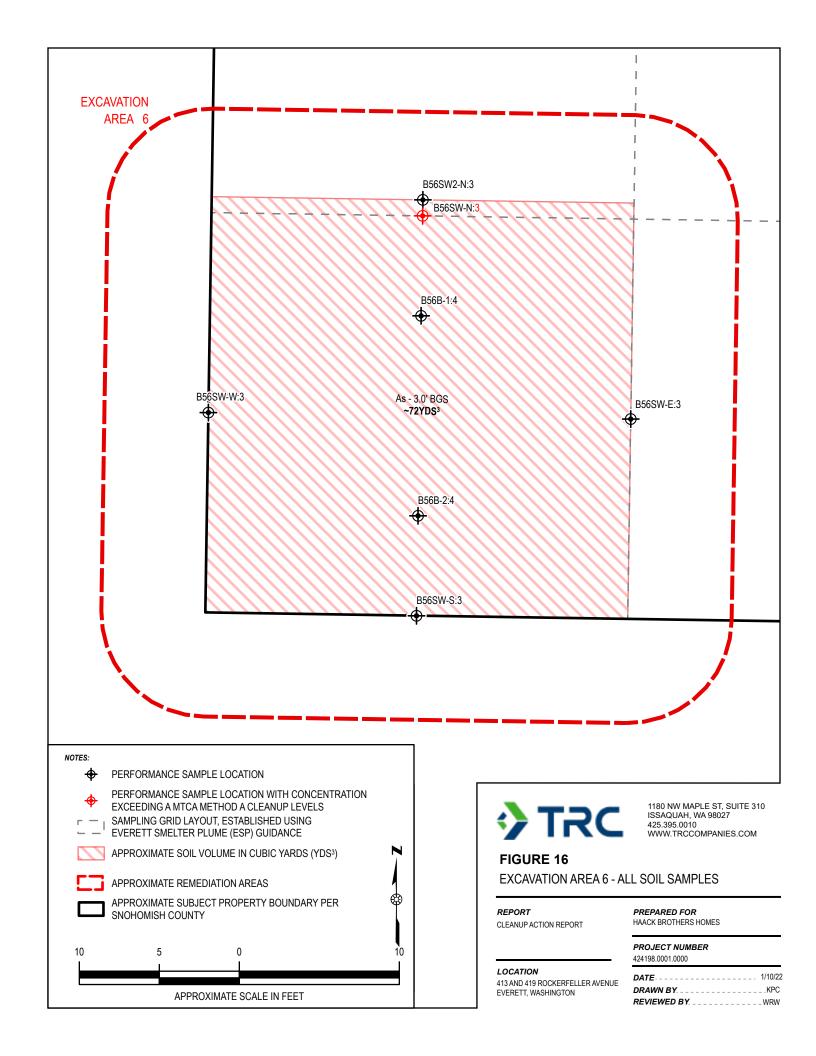


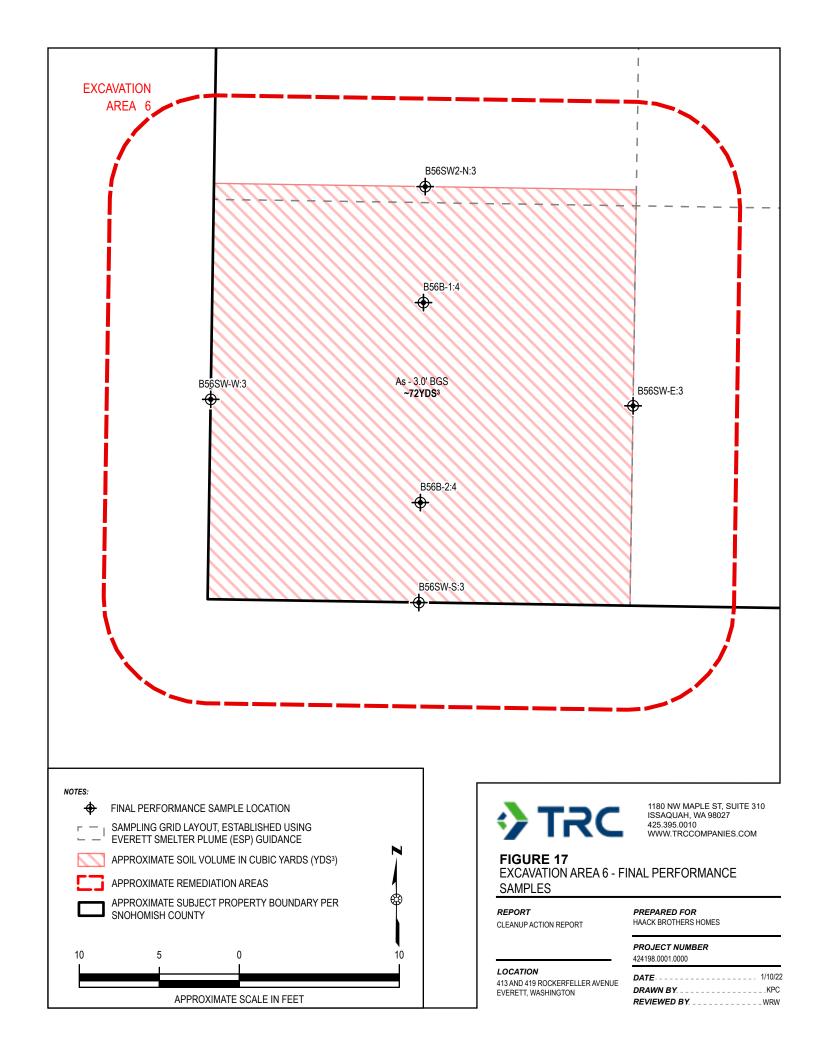












# Attachment A Environmental Covenant



After Recording Return to City of Everett 3200 Cedar Street Everett, WA 98201

Attn Mike Palacios, Real Property Manager

**ENVIRONMENTAL COVENANT** 

For Legion Memorial Golf Course

Grantor

City of Everett

Grantee

City of Everett

Legal

Portions of the Sections 17 and 21, Township 29N, Range 5East of the Willamette Meridian, Snohomish County, Washington Referred to as "Legion Memorial Golf Course," 144 West Marine View Drive Everett, WA

98201 Additional legal description attached

Tax Parcel Nos

29050800200300, 29050800300100, 00438610400600, 29051700201700

Cross Reference

None

This Declaration of Covenant is made pursuant to RCW 70 105D 030(1)(f) and (g) and WAC 173-340-440 by the City of Everett ("City"), a municipal corporation, and its successors and assigns.

The undersigned, the City of Everett is the fee owner of real property ("Property") in the County of Snohomish, State of Washington, that is subject to this Covenant. The Property is legally described in Attachment A of this Covenant and made a part hereof by reference

The Property that is the subject of this environmental covenant has been the subject of remedial actions under the Washington State Model Toxics Control Act ("MTCA"), Chapter 70.105D (hereafter "Remedial Action") The Remedial Action conducted at the property is described in the following document East Marine View Drive Widening and Legion Memorial Golf Course Improvement Independent Remedial Action Report; prepared for the City by Hydrometrics, Inc., dated December 1998 This document is on file at the Northwest Regional Office of the State of Washington Department of Ecology ("Ecology")

This Covenant is required because the Remedial Action resulted in residual concentrations of arsenic that exceed the Model Toxics Control Act Method A residential cleanup level for soil established under WAC 173-340-740 ("contaminated soil")

The City makes the following declaration as to limitations and restrictions to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, as provided by law and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (\*Owner!)

Section 1 A portion of the Property contains contaminated soil located under the parking lot and clubhouse facilities. The Owner shall not alter, modify, or remove the existing structures in any manner that may result in the release or exposure to the environment of that contaminated soil or create a new exposure pathway without prior written approval from Ecology. The Owner may conduct parking lot and building maintenance, redevelopment or expansion that maintains or increases the containment function of the structures or that meets the applicable soil profile specified by Ecology in the Everett Smelter Site Integrated Final Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area (Ecology 1999) as may be amended by Ecology from time-to-time ("Everett Smelter Site FCAP/FEIS").

Section 2 The Owner shall not modify areas of the Property on which residual contaminated soil is located and capped by sand or turf, except as follows

- Any future redesign and reconfiguration of entire holes or overall renovation of the golf course that disturbs contaminated soil on the Property shall follow the work plan summarized on Table 2 of, and further described in, the East Marine View Drive Widening and Legion Memorial Golf Course Improvements Independent Remedial Action Report The City may request Ecology's review and concurrence on changes, if any, in the work plan
- As part of normal operations, improvements, and maintenance of the golf facility, the Owner shall maintain and implement a set of protective procedures to be used in maintaining any areas of the Property where contaminated soil remains (hereafter "Golf Course Maintenance Program") The golf course maintenance program shall include worker training, use of protective clothing, isolation of temporarily stockpiled soils with a plastic barrier, backfilling of any new utility trenches with clean material, and proper management of any soils that require removal off-site
- c. The Golf Course Maintenance Program shall also include maintenance of the integrity of the capped areas, including (i) the maintenance of not less than four inches of clean sand or soil on fairways, tees, and greens, (ii) turf and landscaping in areas of the rough that are not capped by sand or other features (e.g., impervious surfaces, ponds), (iii) the periodic topdressing and maintenance of turf on Fairway No 12 unless and until the hole is renovated and capped or meets the applicable soil profile in the Everett Smelter Site FCAP/FEIS, and (iv) procedures for construction or maintenance of golf course or other utilities or facilities that may be located on or traverse the Property
- Except for activities performed in accordance with the Golf Course Maintenance Program, any activity on the Property that may result in the release or exposure to the environment of the contaminated soil that was contained as part of the Remedial Action, or create a new exposure pathway, is prohibited. Some examples of activities include: drilling, digging, placement of any objects or use of any equipment which deforms or stresses the surface beyond its load bearing capability, piercing the surface with a rod, spike or similar item, bulldozing or earthwork
- e If the use of the Property were to change from a golf course, then either the applicable soil profile specified in the Everett Smelter Site FCAP/FEIS shall be met for such use,

or approval from Ecology must be obtained for any further institutional controls or other remedial actions that may be necessary to protect human health and the environment required by MTCA

Section 3. Any activity on the Property that may interfere with the integrity of the Remedial Action and continued protection of human health and the environment is prohibited

Section 4 The Owner of the property must give thirty (30) day advance written notice to Ecology of the Owner's intent to convey any fee interest in the Property No conveyance of title, easement, or other interest in the Property shall be consummated by the Owner without adequate and complete provision for continued monitoring, operation, and maintenance of the Remedial Action (Section 5 below governs leases)

Section 5 The Owner must restrict leases for uses of the Property other than the clubhouse or pro shop, if any, to uses and activities consistent with the Covenant and notify all lessees of the restrictions on the use of the Property

Section 6 The Owner must notify and obtain approval from Ecology prior to any use of the Property that is inconsistent with the terms of this Covenant Ecology may approve any inconsistent use only after public notice and comment

Section 7 The Owner shall allow authorized representatives of Ecology the right to enter the Property at reasonable times for the purpose of evaluating the Remedial Action, to take samples, to inspect remedial actions conducted at the property, and to inspect records that are related to the Remedial Action

Section 8 The Owner of the Property reserves the right under WAC 173-340-440 to record an instrument that provides that this Covenant shall no longer limit use of the Property or be of any further force or effect. However, such an instrument may be recorded only if Ecology, after public notice and opportunity for comment, concurs

CITY OF EVERETT

Ву

Ray Stephanson, Mayor

Date

Attest

Sharon Marks, City Clerk

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Approved as to Form

James D Iles, City Attorney

Attachments

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STATE	e of Washington )				
COUN	TY OF SNOHOMISH )	SS			
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appears that h	ed before me, and said persone/she was authorized t	to execute the inst	trument and acknow	umem, on oam states vledged it as th	e e
	MATOR	of the City of	Everett to be the free	and voluntary act o	f
such pa	arty for the uses and purpose		rument		
DATE	D 12-05-08	· 			
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	S. KOUMISSION CO.				
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Exhibit A

#### CITY OF EVERETT DEPARTMENT OF PARKS AND RECREATION

LEGAE DESCRIPTION LINE OF DEMARCATION FOR LEGION GOLF COURSE CLEAN-UP ACTION PLAN

A LINE OF DEMARCATION THROUGH A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER AND GOVERNMENT LOT 4, SECTION 8, TOWNSHIP 29 NORTH, RANGE 5 BAST, W.M., SNOHOMISH COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION;

THENCE S 0°52'16" W ALONG THE WEST LINE OF SAID SECTION 521.02 FEET TO THE WESTERLY PROLONGATION OF THE NORTH MARGIN OF 3RD STREET AS SHOWN ON THE PLAT OF EVERETT DIVISION "S", PER PLAT RECORDED IN VOLUME 6 OF PLATS, PAGE 39, RECORDS OF SAID COUNTY:

THENCE'S 87°59'44" E ALONG SAID PROLONGATION AND MARGIN 310.64 FEET TO THE NORTHERLY PROLONGATION OF THE CENTERLINE OF THE ALLEY ABUTTING THE BAST LINE OF BLOCK 89 IN SAID PLAT:

THENCE S 2°00'16" W ALONG SAID PROLONGATION AND CENTERLINE 542.15 FEET TO THE TRUE POINT OF BEGINNING:

THENCE N 28°40'00° B 526.56 FBBT;

THENCE N 38°28'00" B 271.62 FEET TO INTERSECT THE ARC OF A CURVE AT A POINT FROM WHICH THE CENTER LIES N 19°36'04" W 235.95 FEET DISTANT:

THENCE NORTHEASTERLY ALONG SAID CURVE TO THE LEFT THROUGH A CENTRAL ANGLE OF 45°19°21". AN ARC LENGTH OF 186.64 FEET:

THENCE N 2°41'46" E 159.00 FEET TO A 6 FOOT CHAIN LINK FENCE:

THENCE ALONG SAID FENCE BY THE FOLLOWING COURSES AND DISTANCES:

THENCE CONTINUING N 2°41'46" B 24.66 FEET;

THENCE N 7°21'14" E 175.42 FEET TO THE BEGINNING OF A CURVE TO THE LEFT HAVING A RADIUS OF 700.00 FEET;

THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 8°55'03", AN ARC LENGTH OF 108.93 FEBT TO A POINT OF TANGENCY;

THENCE N 1°33'49" W 80.62 FEBT TO THE BEGINNING OF A CURVE TO THE LEFT HAVING A RADIUS OF 534.17 FEBT:

THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 12°20'21" AN ARC LENGTH OF 115.04 FEBT TO A POINT OF TANGENCY;

THENCE N 13°54'10" W 148.44 FRET:

THENCE N 14°50'29" W 208.02 FRET;

THENCE N 15°49'36" W 118.73 FEET MORE OR LESS TO THE SOUTHERLY MARGIN OF ALVERSON BOULEVARD AND THE TERMINUS OF SAID FENCE AT IT'S INTERSECTION WITH A 4 FOOT CHAIN LINK FENCE ON SAID MARGIN.

00

OSTERGAARD-ROBINSON & ASSOCIATES, INC.

3630 COLEY AVENUE EVERETT, WASHINGTON 98201 425/259-6445 C:/96146LEG Attachment B Legion Memorial Golf Course – Additional Subsurface Investigation Work Plan, dated 2-28-20



February 28, 2020

Mr. Joel Haack Haack Brothers Homes 3922 87<sup>th</sup> Avenue NE Marysville, Washington 98270

Re: Additional Subsurface Investigation Work Plan

Legion Lots 1 through 4

413 and 419 Rockefeller Avenue

Everett, Washington

TRC Project Number: 015446.0001.0000

Dear Mr. Haack:

TRC Environmental Corporation (TRC), formerly Environmental Partners, Inc. (EPI), is pleased to submit the following work plan to perform an Additional Subsurface Investigation (ASI) of four building lots located at approximately 413 and 419 Rockefeller Avenue in Everett, Washington (subject property). The six lots have been termed the "Legion Lots" and were recently sold to Haack Brothers Homes (Haack Brothers) by the City of Everett (City). The general location of the subject property is indicated on Figure 1.

The subject property is within the far western boundary of the Legion Memorial Golf Course, which is a cleanup site identified by the Washington State Department of Ecology (Ecology) with Facility Site ID No. 9311679 and Cleanup Site ID No. 1653.

The Legion Memorial Golf Course was the subject of a Remedial Investigation and Feasibility Study (RI/FS) related to historical particulate emission from the historical Asarco Everett Smelter. The Legion Memorial Golf Course was found to be impacted with varying concentrations of arsenic in soil. The remedy for that Site included the use of an environmental covenant. It appears that the Legion Lots are within the bounds of the environmental covenant area, although the legal description within the covenant is not clear. Under the requirements of the environmental covenant, the City notified Ms. Sandra Matthews of the pending change in ownership in a letter dated September 8, 2019.

#### **BACKGROUND**

TRC's review of documents related to the Legion Memorial Golf Course and Legion Lots indicate that the subject property is within the boundary of the upland portion of the Everett Smelter Cleanup Site. In the

Mr. Joel Haack, Haack Brothers Homes Additional Subsurface Investigation Work Plan Legion Lots, Everett, Washington February 28, 2020

RI/FS for the Legion Memorial Golf Course the area of the Legion Lots is identified as having less than 20 milligrams per kilogram (mg/kg) of arsenic in soil, although sample locations and the arsenic isoconcentration contours are not fully surveyed or definitive.

The City previously allowed fill from a City retention pond construction project to be stored on the Legion Lots. The original land surface on the Legion Lots was leveled and there are currently between 0 and about 5 feet of fill material on the property, depending upon the original topography.

Prior to disposal by the City, the excess fill material was tested and was reportedly determined to be "clean" and was used as fill material in the Lowland portion of the Everett Smelter Cleanup Site. After the removal of fill, a contractor for the City collected three soil samples from around the area of the former fill stockpile. One of those samples, named "Site 3 (North)" contained concentrations of arsenic and lead exceeding applicable cleanup levels. That sample, based on the limited available documentation, appears to be located near the boundary between Lots 5 and 6. The sample location was not surveyed or referenced with any dimensions from a fixed point. There is no documentation regarding sampling protocols or whether the samples were collected by an environmental professional. There was no report regarding any of the sampling procedures or results.

Haack Brothers retained TRC, through its acquisition of EPI, to complete a Targeted Subsurface Investigation of Lots 5 and 6 in December 2019. The Targeted Subsurface Investigation included investigation of Lots 5 and 6 to assess the quality in native soil at and beneath the fill material placed by the City.

Two test pits were excavated on Lot 5 and Lot 6 for a total of four test pits, and two soil samples were collected for analysis from each test pit (eight total). The soil samples were collected from the 0-to-12-inch interval and the 18-to-24-inch interval beneath the fill-native soil contact in each test pit. Each soil sample was submitted for analysis of arsenic, cadmium, and lead by U.S. Environmental Protection Agency (EPA) Method 6020A. None of the detected concentrations exceeded a Washington State Model Toxics Control Act (MTCA) Method A Cleanup Level (CUL) in any of the eight samples. Soil sample locations and analytical results are depicted on Figure 2.

This finding indicates that the native golf course surface in Lots 5 and 6 is not impacted with arsenic, cadmium, or lead and suggests the possibility that native soils in Lots 1 through 4 are similarly not impacted. This Work Plan presents a similar sampling and assessment approach for Lots 1 through 4 to confirm the general findings of the original RI/FS for the Legion Memorial Golf Course Site.

If it can be determined that there are no arsenic, cadmium, or lead impacts on the Legion Lots, it is reasonable to request a revision to the environmental covenant to exclude Lots 1 through 6, and to request a No Further Action (NFA) determination from Ecology for those lots.



Mr. Joel Haack, Haack Brothers Homes Additional Subsurface Investigation Work Plan Legion Lots, Everett, Washington February 28, 2020

#### ADDITIONAL SUBSURFACE INVESTIGATION

#### **Soil Sampling**

Soil sampling will be performed on Lots 1 through 4. Two test pits will be excavated on each lot for a total of eight test pits. Two soil samples will be collected from each test pit to a total of 16 samples. A standard tire-mounted backhoe/excavator will be used for test pit excavation. The proposed test pit and sample locations are indicated on Figure 2.

A test pit will be excavated at each proposed location through the fill material placed by the City. Soil samples will be collected from the underlying native soils at depths of 0 to 6 inches and 12 to 18 inches below the fill-native soil interface. The fill-native interface will be readily apparent during excavation and includes the pre-fill vegetative layer of grasses. It is anticipated that the fill material is 3.5 feet and 5 feet in the proposed sampling locations.

For excavations deeper than 4 feet, the samples will be collected using the excavator bucket. Personnel will not enter any test pits deeper than 4 feet. For test pits shallower than 4 feet, samples will be collected directly from the excavation sidewalls or bottom.

Samples will be collected using single-use disposable equipment. A representative sample from the target sampling interval will be placed in a plastic bowl and homogenized using the sampling spoon. Any pebbles or gravel larger than 1/4-inch will be removed from the bowl. The sampling spoon will then be used to place a portion of the homogenized sample directly into 4-ounce laboratory-supplied glass jars with Teflon lined lids. Two blind duplicate samples will be collected as a component of the field quality assurance/quality control (QA/QC) efforts. All samples will be handled and transported under standard chain-of-custody protocols. All sampling procedures will be consistent with the standard of care for similar assessment and investigations.

After sampling is complete, the test pit excavation will be backfilled with the removed material and graded flat.

#### **Laboratory Analysis**

Samples will be labeled and placed into an iced cooler pending submittal to ALS Laboratory (ALS) in Everett, Washington. ALS is accredited by Ecology to perform the analyses that will be requested.

Each of the 16 soil samples and 2 duplicate samples will be submitted for analysis of arsenic, cadmium and lead using EPA Method 6020A under standard turnaround time. This analysis utilizes Inductively Coupled Plasma and Mass Spectroscopy (ICP-MS).

Laboratory QA/QC will include duplicate analyses, matrix spike, and matrix spike duplicates to evaluate both accuracy and precision of the laboratory methods. Analytical results that are outside of laboratory control limits will be flagged with an appropriate data qualifier and re-analyzed. Analytical data reports will include all internal laboratory QA/QC results.



Mr. Joel Haack, Haack Brothers Homes Additional Subsurface Investigation Work Plan Legion Lots, Everett, Washington February 28, 2020

Laboratory analyses will be performed under standard 2-week turnaround time.

### Health and Safety Plan

A project-specific Health and Safety Plan (HASP) for investigation activities is required by the Code of Federal Regulations (CFR) Title 29 1910.120 and by the Washington State Department of Labor and Industries and under WAC 173-340-810. The HASP is a document that establishes site objectives, anticipates job hazards, provides implementation of a hazard communication and injuries/illness prevention program, and establishes policies and procedures to be followed in both routine and emergency situations.

The HASP for this project is presented in Attachment A.

#### **Utility Locating**

TRC will notify Washington One-Call Service to identify publicly-owned subsurface utilities at the subject property. The notification will be initiated a minimum of 3 business days prior to scheduled field activities. In addition, TRC will have a private utility locator clear each sampling location prior to advancing borings. TRC is not responsible for damage to utilities that cannot be located and are not identified.

If after reviewing this Work Plan you have any questions or need additional information, please feel free to give me a call at (425) 395-0010.

Sincerely,

Thomas C. Moria L.G.

Principal Geologist

Enclosures: Figure 1 – General Vicinity Map

Thomas C. Morin

Figure 2 – Site Representation Showing Soil Analytical Results and Proposed Test Pit Locations

Nate Hinsperger, L.G.

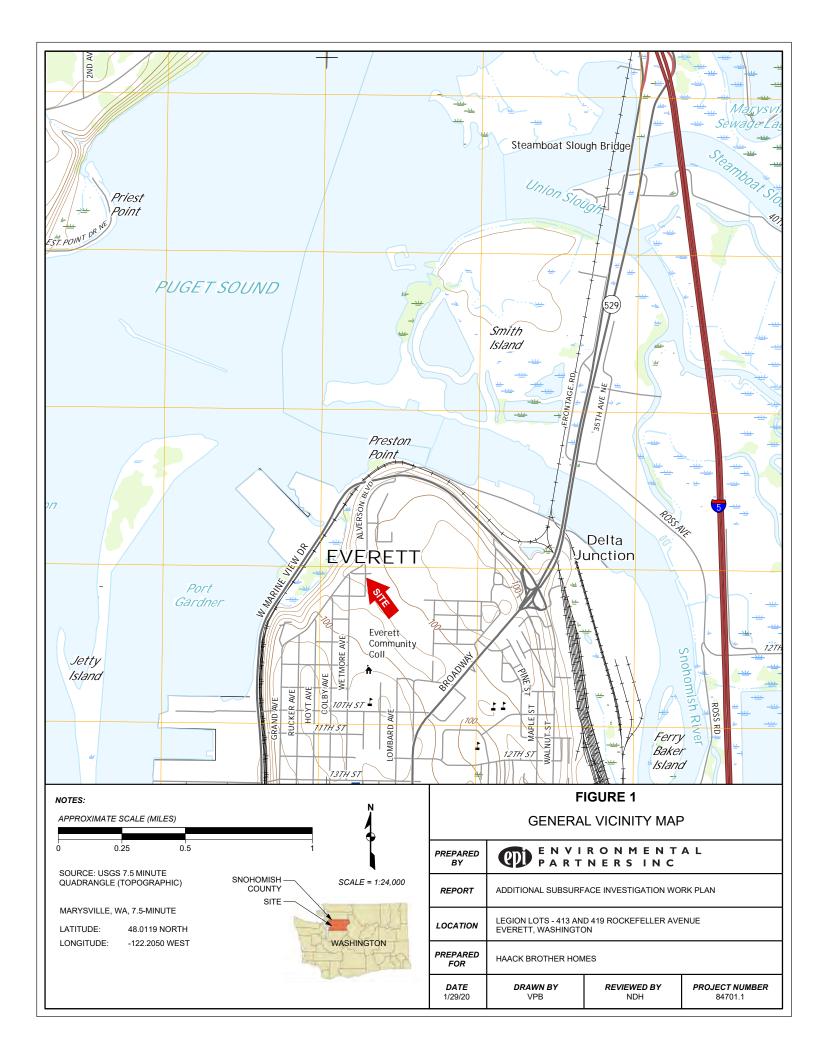
Senior Geologist

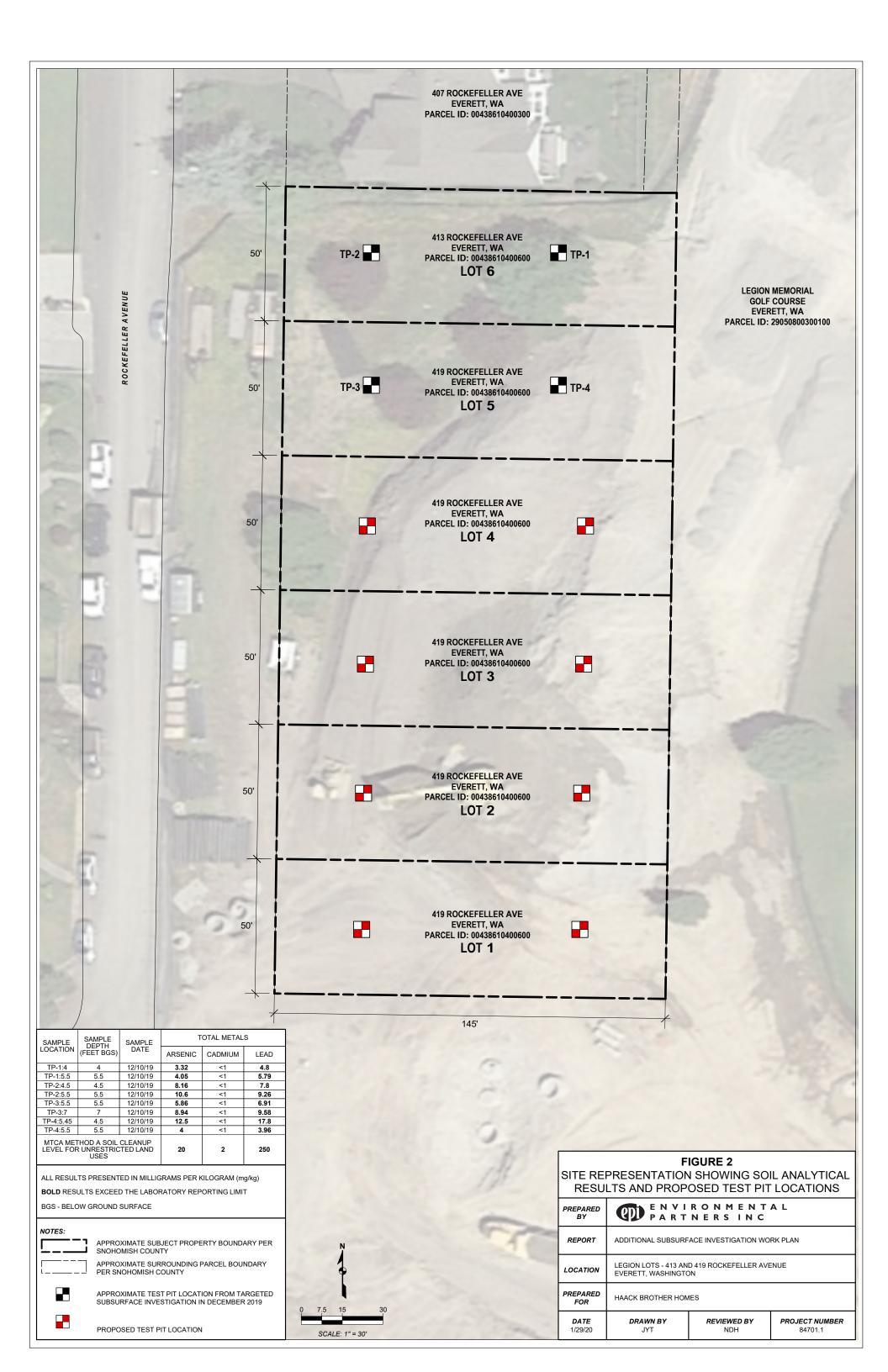
Attachment A - Health and Safety Plan

TRC

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Attachment A Health and Safety Plan



# **Health and Safety Plan**

Site Name:	Legion Lots							
Site Address:	413 and 419 Rock	413 and 419 Rockefeller Avenue, Everett, Washington						
TRC Project Number:	015446	015446						
Client:	Haack Brothers Ho	omes	Phone: (42	25) 397-7	7360			
Site Contact:		Phone: (42	25) 397-7	7360				
Client Health and Safety Representative	N/A e:		Phone: N/	Ά				
		_			_			
Planned Activities:		Location Within	Site:		Dates:			
Utility locate, test pit ex sampling	cavation, soil	Lots 1 through 4 Rockefeller Aven		19	March through May 2020			
Estimation of Hazard Arsenic, lead, and cad	s to TRC Personnel: mium in soil, mechanica	al equipment, subsu	urface utilities	S.				
Physical Description Vacant Site in resident	of the Facility: ial neighborhood. Topo	ography is generally	y flat with veg	getative c	cover.			
Operation Descriptio Vacant Site in resident	n of the Facility: ial neighborhood adjace	ent to golf course.						
Facility Status: Vacant properties in a	residential neighborhoo	d.						
Hazard Assessment								
Chemical State:	☐ Liquid ☐ Vapor	Solid ☐ Unknown		Gas				
Chemical Characteristics:	Corrosive Volatile	☐ Flammab	le 🖂	Toxic Other:				
Dogovika Retartial Cl	nomical Harards and B	Jodos of Eversore	•					
	nemical Hazards and N		е					
Chemical Hazards:	Arsenic, lead, and cad		douless-the	D-4	iol duot basses			
Potential Modes of Exposure:	Primary mode: Inhalation, Secondary mode: ingestion. Potential dust hazard during test pit excavation. Will monitor for dust during test pit excavation.							

Potential Che		Action Levels			Target	
Name	PEL	STEL	IDLH	Exposure Route	Organs	Symptoms
Metals						
Arsenic	0.002 mg/m <sup>3</sup>	0.010 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Inhalation, skin absorption, skin/eye contact, ingestion	Liver, kidneys, skin, lungs, lymphatic system	Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation of skin [potential occupational carcinogen]
Cadmium	0.005 mg/m <sup>3</sup>		9 mg/m³	Inhalation, ingestion	Respiratory system, kidneys, prostate, blood	Pulmonary edema, breathing difficulty, cough, chest tightness, sub sternal (chest) pain, headache, chills, muscle aches, nausea, vomiting, diarrhea, loss of sense of smell, emphysema, proteinuria, mild anemia, [potential occupational carcinogen]
Lead	0.050 mg/m <sup>3</sup>		100 mg/m <sup>3</sup>	Inhalation, ingestion, skin/eye contact	Eyes, gastrointestina I tract, CNS, kidneys, blood, gingival tissue	Weakness, exhaustion, insomnia, facial pallor, anorexia, weight loss, malnutrition, constipation, abdominal pain, colic, anemia, gingival lead line, tremor, paralysis, wrist, ankles, encephalopathy, kidney disease, irritation eyes, hypertension

Describe Potential Physical Worker Hazards: Heavy equipment, slip, trip, and fall, cold stress							
Poten	itial Physical Hazards						
	Heat Stress	$\boxtimes$	Cold Stress		Explosion/Flammability		
	Noise		Confined-Space Entry		Oxygen-Deficient Atmosphere		
	Traffic or heavy equipment		Heights	$\boxtimes$	Slip, trip, fall		
	Overhead hazards		Dust (non-toxic)		Other:		

Prevention of Physical Hazards						
Category	Cause	Preventive Measures				
Head Hazards	Falling and/or sharp objects, bumping hazards.	Hard hats will be worn by all personnel at all times when working around overhead hazards and heavy equipment.				



Sharp objects, dropped objects, uneven

Chemical resistant, steel-toed boots must

Foot/Ankle Hazards

FOOT/ANKIE HAZAROS	and/or slippery surfa exposure.		be worn at all times on-site.	
Eye Hazards	Sharp objects, poor (welding equipment) splashes.		Safety glasses/face shields will be worn when appropriate. Shaded welding protection will be worn when appropriate.	
Electrical Hazards	Underground utilities motors, electrical pa breakers.		Locator service mark-outs, visual inspection of work area prior to starting work.	
Mechanical Hazards		ich as drill rigs, servic quipment, saws, drills		
Noise Hazards	Machinery creating > >115 decibels contine > 140 decibels.	>85 decibels TWA, nuous noise, or peak	Wear earplugs or protective earmuffs.	
Fall Hazards	Elevated and/or slipp surfaces. Trips cause "housekeeping" prace	ed by poor	Care should be used to avoid such accidents and to maintain good "housekeeping". Fall protection devices must be used when work proceeds on elevated surfaces.	
Lifting Hazards	Injury due to imprope overreaching/overex objects.		Use proper lifting techniques, mechanical devices where appropriate.	
Lighting Hazards	Improper illumination	۱.	Limit work to daylight hours or rent additional construction lighting.	
Site Activity Consid	erations			
Will Client Site Repre	sentative be Present	? Yes	☐ No  ☐ Sometimes	
Exact Locations of Cl	nemicals:	☐ Know	n 🛚 Assumed 🔲 Unknown	
Identify Nearest Off-S	Site Population:	☐ Rural ☐ Urbar	☐ Industrial ☐ Residential ☐ Commercial	
Monitoring Equipme	ent			
☐ PID	FIC	)	☐ Combustible gas indicator	
Colorimetric to	 ubes ⊠ Pai	rticulate meter	☐ Carbon monoxide meter	
☐ H <sub>2</sub> S/O <sub>2</sub> Meter	☐ Oth	ner (describe):		
Monitoring Action G	Guidelines			
Instrui		Reading/Obser vation	Action Required	
Particulate Meter		Observable dust	Notify Project Manager to determine potential engineering controls	
		See Potential	Evacuate all workers from work area.	

**Chemical Hazards** 

Section Above



**Notify Project Manager and Company** 

**Safety Officer** 

Special Safety Considerations  If there is more than one level of hazard, or if there are multiple "sites" within a site, the hazards associated with each should be considered. A separate "Special Safety Considerations" section should						
be completed for each "site."  Work Location: Lots 1 through 4 at 319 Rockefeller Avenue						
Work Location: Lots 1 through 4 at 319 Rockefeller Avenue						
Objective of work at this Location: Test pit advancement, soil sampling						
Level of Protection Planned: ☐ Level C ☐ Level D ☑ Level D-Modified (explain below)						
Modifications to Level of Protection: Hard hat, safety glasses, steel toe boots, and hearing protection required when working near drill rigs or heavy equipment. DOT-approved safety vest required when working near vehicle traffic or heavy equipment. TRC staff may not enter any un-shored excavation greater than 4-feet deep unless 1:1 sidewall slope is present.						

Types of PPE to be U	Types of PPE to be Used				
Foot	Steel-toed, steel shank boots. Rubber steel toed boots or rubber boot covers required if boot decontamination is warranted.				
Hand	Double layer of nitrile gloves when handling potentially contaminated media, temperature-appropriate gloves for protection during cold weather.				
Eye/Face	Safety glasses				
Clothing	Temperature appropriate, long pants are required. Tyvek coveralls should be available to all on-site workers.				
Respiratory	Based on monitoring requirements (full- or half-face respirator should be available to all on-site workers).				
Additional Gear	Hardhat, earplugs, face shield, DOT-approved safety vest				

Work Party					
Name	Responsibility	Level of Protection			
Nate Hinsperger					



#### **Site Entry Procedure**

Upon site arrival but before walking onto the property, send an email with the following information to the Project Manager and to <a href="mailto:onsite-iss@trccompanies.com">onsite-iss@trccompanies.com</a>:

- Property address
- Who is with you at the job site (if anyone)
- Description and license number of the vehicle you are using
- What time you anticipate leaving the property

When leaving the site for the day, send another email to the Project Manager and <a href="mailto:onsite-">onsite-</a>
<a href="mailto:iss@trccompanies.com">iss@trccompanies.com</a>
stating that you are off-site. The email can be as simple as: "It's 5:00pm and I'm leaving the property."

#### **Criteria for Changing Personal Protection**

Air monitoring threshold limits. When visible dust is noted.

#### **Criteria for Implementing Engineering Controls:**

When air monitoring threshold limits are exceeded.

#### **Decontamination Procedures**

Remove PPE and wash hands and face prior to eating or leaving Site. Eye wash kit, washing dermal with soap and water

#### Work Limitations (i.e., time of day, conditions, etc.)

Daylight hours only.

#### **Placement of Disposable Materials**

N/A

#### Placement of Investigation-Derived Residuals (i.e., drilling spoils, decon. water, purge/dev. water)

Test pit spoils will be placed back into excavation.

#### **Location of Nearest:**

Cellular Phone: With TRC field representative

Running Water: N/A

Public Road: Rockefeller Road

Lavatory: N/A

Emergency Planning					
Service	Name	Number			
Local Police:	Everett Police Department	911			
Local EMS:	Everett Fire Department	911			
Local Fire Department:	Everett Fire Department	911			
Local Hospital:	Providence Medical Center	(425) 261-2000			
Client Contact:	Joel Haack	(425) 397-7360			



Site Phone Number:	Nate Hinsperger	(206) 851-3312	
TRC Office (425-395-0010)	Douglas Kunkel	kel 425-395-0016 office 425-241-8170 cell	

# **Directions to Nearest Medical Facility (Map Attached):**

The recommended route to Providence Medical Center is highlighted on attached map. The hospital is located approximately 0.9 miles from the site.

Approvals			
Title	Signature	Date	
Site Safety Officer, Nate Hinsperger			
Project Manager, Nate Hinsperger			
Company H&S Officer, TRC Safety Officer, Doug Kunkel			

Additional Site Personnel				
Printed Name and Company	Approvals Signature	Date		



6



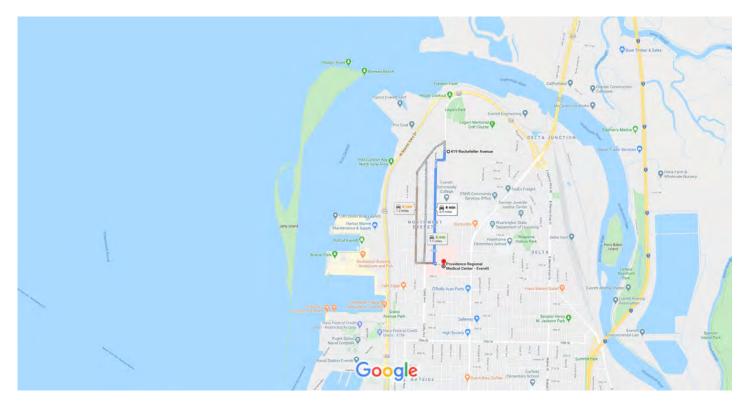
# **Daily Safety Meeting**

Date:				
TRC Project Number:				
Site Address:				
TRC Personnel Conducting Meeting:				
Known or Suspected Potential Haz	zards	Personal Protective Eq	uipment	
☐ Chemicals of Potential Concern		Hard Hat		
☐ Traffic (Vehicle and Pedestrian)		Eye Protection		
☐ Trips		High-Visibility Clothing		
☐ Falls		Flame-Resistant Clothing		
☐ Drilling Equipment		Protective Footwear		
Excavation Equipment		Coveralls		
☐ Noise		Hearing Protection		
☐ Hot/Cold		Respirator		
Utilities, Subsurface, and Overhead		Exclusion Zone (Cones, Sig	ns, Etc.)	
Other, Describe:		Other, Describe:		
Locations of Emergency Equipment		Decon, Emergency Signals, Rally Point, Etc.		
☐ Fire Extinguishers		Decon Procedures		
☐ Eye Wash		Waste Management		
☐ First Aid Kit		Hand Signals for Shutdown		
☐ Nearest Medical Facility		Audible Signals for Shutdown		
☐ Potable Water		Primary Rally Point		
Restroom		Secondary Rally Point		
☐ Equipment Shutdown Procedures		Other Emergency Info, Describe:		
Other, Describe:				
	s Attending Sa	fety Meeting		
Name / Affiliation (Print)			Time	
	/			
	/	<del>-</del>		
	/			
	/			
	/			



# 419 Rockefeller Ave, Everett, WA 98201 to Providence Regional Medical Center - Everett

Drive 0.9 mile, 4 min



Map data ©2020 Google 1000 ft I

# 419 Rockefeller Ave

Everett, WA 98201

1	1.	Head south on Rockefeller Ave toward 5th St	
Ļ	2.	Rockefeller Ave turns right and becomes 5th S	- 322 ft <b>St</b>
4	3.	Turn left onto Wetmore Ave	- 315 ft
4	4.	Turn left onto 13th St	0.7 mi
<b>L</b>		Turn right  Destination will be on the right	— 56 ft
			— 36 ft

# Providence Regional Medical Center - Everett

1700 13th St, Everett, WA 98201

These directions are for planning purposes only. You may find that construction projects, traffic. weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Attachment C VCP Opinion Letter NW3268



# **Electronic Copy**

# STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000 711 for Washington Relay Service • Persons with a speech disability can call (877) 833-6341

November 30, 2020

Joel Haack Haack Brothers Homes 3922 87<sup>th</sup> Avenue NE Marysville, WA 98270 (joel@haackbrothers.com)

Re: Opinion Pursuant to WAC 173-340-515(5) on Remedial Action for the Following Hazardous Waste Site:

• Site Name: Legion Lots Haack Parcels

• Site Address: 413-419 Rockefeller Avenue, Everett, Washington, 98201

Facility/Site ID No.: 9311679
Cleanup Site ID No.: 1653
VCP Project No.: NW3268

#### Dear Joel Haack:

The Washington State Department of Ecology (Ecology) received your request for an opinion on the *Additional Subsurface Investigation Work Plan Legion Lots 1 through 4 (Work Plan)* for the **Legion Lots Haack Parcels** (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

#### **Issue Presented and Opinion**

Pursuant to implementation of the activities specified in the *Additional Subsurface Investigation Work Plan*, will the collected information assist in resolving Site characterization data gaps?

YES. Ecology has determined that implementing the Work Plan will assist in determining the effectiveness of the interim cleanup action and resolving identified data gaps. However, additional subsequent soil, soil gas, and possibly groundwater sampling and evaluation may be necessary to complete the evaluation of remedial action process.

## **Description of the Site**

This opinion applies only to the Site described below. The Site is defined by the nature and extent of contamination associated with the following release:

Arsenic into the Soil.

**Enclosures A and B** include a detailed diagram of the Everett Smelter Plume sampling zones, and Table 7-1 (residential sampling).

Please note a parcel of real property can be affected by multiple sites. At this time, we have information that the parcels associated with this Site are affected by:

- Legion Memorial Golf Course NW2017 (Upland) 2008 Environmental Covenant institutional controls and restrictions
- Everett Smelter Plume upland areas soil sampling requirements (Zone C)

## **Basis for the Opinion**

This opinion is based on the information contained in the following documents:

- 1. TRC Companies, Additional Subsurface Investigation Work Plan, Legion Lots 1 through 4, 144 West Marine View Drive/419 Rockefeller Avenue, Everett, Washington, dated February 28, 2020.
- 2. Legion Memorial Golf Course Property Sale Notification, Legion Lots 1 through 4, 144 West Marine View Drive/419 Rockefeller Avenue, Everett, Washington, dated September 18, 2019.
- 3. Washington Department of Ecology, *Scope of Work, Task Work Assignment, Everett Smelter Uplands Project, Residential Sampling, Fiscal Year 2018-2019.*
- 4. Legion Memorial Golf Course (Upland) Environmental Covenant; Recording Number 200812050469; Recording date 12/5/2008.

Those documents are kept in the Central Files of the Northwest Regional Office of Ecology (NWRO) for review by appointment only. You can make an appointment by completing a Request for Public Record form (<a href="https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests">https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests</a>) and emailing it to <a href="https://ecordsOfficer@ecy.wa.gov">PublicRecordsOfficer@ecy.wa.gov</a>, or contacting the Public Records Officer at 360-407-6040. A number of these documents are accessible in electronic form from the Site web page (<a href="https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653">https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653</a>).

This opinion is void if any of the information contained in those documents is materially false or misleading.

# **Analysis and Opinion**

Based on a review of supporting documentation listed above, **Ecology has the following comments:** 

### **Site Characterization**

- Your characterization of the Site documented impacts to soil related to historical particulate emissions releases from the former ASARCO smelter facility. The soil was found to be impacted with varying concentrations of arsenic which exceeded MTCA Method A cleanup levels. The Site is within the boundary of the upland portion of the Everett Smelter Plume Cleanup Site. The Everett Smelter Plume Cleanup Site is divided into three zones for soil sampling protocols: Zone A, Zone B and Zone C. The Site, which consists of Lots 1 through 6, is located within Zone C.
- Fill material from a City of Everett retention pond construction project was stored on the Legion Memorial Golf Course Lots. The original land surface on the Property was leveled and up to approximately 5 feet of fill material was placed on the Property. Prior to disposal, the excess fill material was tested and determined to contain arsenic that was either non-detectable or below MTCA Method A cleanup levels. Three soil samples were later taken around the stockpile. No information was provided whether samples were taken in or on the stockpile. One sample, near the boundary of Lots 5 and 6, contained concentrations of arsenic and lead above MTCA Method A cleanup levels.

A targeted collection and analysis of eight samples of native soil (0 to 18 inches and 18 to 24 inches) beneath the fill in four test pits (TP-1 though TP-4) on Lots 5 and 6 was conducted in late 2019. These analytical data indicated that concentrations of arsenic, cadmium and lead either non-detectable or below MTCA Method A cleanup levels were present in the native soil.

• Additional assessment borings in the remaining Lots 1 through 4 are proposed in the Work Plan to further delineate native soil for arsenic, lead or cadmium contamination at the Site. Everett Smelter Plume Cleanup Site Zone C protocols should be followed.

Soil samples collected in test pits of Lots 5 and 6 in 2019 were collected in native material at depths of 0 to 12 inches and 18 to 24 inches below the fill. The soil samples

proposed in the Work Plan will be collected from 0 to 6 inches and 12 to 18 inches below the fill. The Work Plan should indicate the reason for this difference in sampling interval depths.

Additional assessment borings should be added to the Work Plan for collection and analysis of the fill material (non-native soil) on the six lots to provide a complete Site characterization. If test pit samples show exceedances, deeper borings should be drilled into the native soil.

The Work Plan (page 3) states that representative material from a target sampling interval will be placed in a bowl and 'homogenized' with a spoon before being placed in a sample container. This procedure is the same as compositing the sample which Ecology does not accept. The soil samples need to be discrete. The samples should be collected directly from the test pit wall and placed in the sample containers.

Also, the Work Plan states that soil samples below depths of 4 feet in the test pits will be collected with a backhoe bucket. The Work Plan needs to describe how the backhoe bucket will be decontaminated between samples and test pits to prevent cross-contamination.

#### **Regulatory Assessment**

The Site is located in a mixed commercial and industrial area; Soil cleanup levels suitable for unrestricted land use are therefore applicable to this Site. For unrestricted land use, direct contact, either MTCA Method A or Method B cleanup levels can be used.

The MTCA Method A soil cleanup levels for unrestricted uses are appropriate (Table 740-1) to consider, and have been selected, with the standard point of compliance for direct contact throughout the Site to a depth of 15 feet below the ground surface (reference WAC 173-340-740(6)(d)). Method A cleanup levels for soil were established based on direct contact and the protection of ground water.

The MTCA Method A groundwater cleanup levels for unrestricted uses are appropriate to consider. Groundwater cleanup levels protective of ground water as a drinking water source are appropriate for this Site. The standard point of compliance for groundwater applies to this Site, which is throughout the Site, from the uppermost level of the saturated zone extending vertically to the lowest depth which could potentially be affected by the Site.

Cleanup levels for air are based on protection of human health. MTCA Method B indoor air cleanup levels and MTCA Method B sub-slab screening levels are the appropriate

choice (MTCA Method A values do not exist). The standard point of compliance for air is in ambient and indoor air throughout the Site.

Everett Smelter Plume: The Legion Memorial Golf Course VCP #NW3268 is located within an area affected by Everett Smelter Plume emissions, and within the area designated as the Everett Smelter Uplands Project.

The Everett Smelter Site was established as a contaminated Site by Ecology in 1990, following the discovery of high concentrations of metals from the former ASARCO smelting facility. To date, this Site encompasses much urban development that was built both in and around the footprint of the former smelter facility. Ecology has divided the Everett Smelter Site into two investigation areas, the Upland Area and the Lowland Area, and has mapped the area into three zones: Zone A, Zone B and Zone C. The Legion Memorial Golf Course Site is located within Zone C.

The Everett Smelter Plume Upland Area Soil Sampling Zones (Enclosure A), and the Everett Smelter Table 7-1, Sampling of Residential Properties (Enclosure B) have been provided for your information.

Legion Memorial Golf Course (Upland) Environmental Covenant 200812050469 dated 12/5/2008: This Environmental Covenant (EC) is on the title report associated with the Legion Lots Haack Parcels Property. The EC stipulates various soil restrictions including: restrict land use, prohibit soil disturbance, ongoing maintenance of remedy, and prohibit removal or alteration of existing buildings. Ecology's legal council will evaluate whether to terminate or amend the EC for the six Legion Lots Haack parcels once an effective, final remedial action has been selected and implemented. If the existing EC is terminated, a new EC will need to be prepared to replace it and include any new identified restrictions.

#### **Other Requirements**

- Under Washington State Law (Chapters 18.43 and 18.220 RCW), hydrogeologic and
  engineering work must be conducted by or under the supervision of a licensed geologist,
  hydrogeologist, or professional engineer (PE) qualified to conduct the work. Any
  document containing geologic or engineering work must be submitted under the seal of
  such an appropriately licensed professional. Thank you for providing the seal of your
  licensed hydrogeologists as evidence of this certification in the reports submitted to
  Ecology for this Site.
- A Terrestrial Ecological Evaluation (TEE) has not yet been performed at this Site. The

TEE is necessary to meet substantive requirements of MTCA, to set cleanup levels that are protective of terrestrial species, and to determine an appropriate cleanup action.

- Electronic submittal of all sampling data into Ecology's electronic *Environmental Information Management* (EIM) database is a requirement in order to receive a final Ecology opinion for this Site. Note that all data must be uploaded into the Ecology EIM system upon submission of each report to Ecology. This allows the Ecology Site Manger to access data to check results or perform additional analyses with those data. Suzan Pool (email <a href="mailto:suzan.pool@ecy.wa.gov">suzan.pool@ecy.wa.gov</a>, or via telephone at 360-407-6692) is Ecology's contact and resource on entering data into EIM. The most recent EIM date submission for this Site was dated February 22, 2019.
- The final cleanup action selected for the Site must meet the minimum requirements specified in WAC 173-340-360(2).

#### **Limitations of the Opinion**

# 1. Opinion does not settle liability with the state.

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

#### 2. Opinion does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

### 3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

#### **Contact Information**

Thank you for choosing to clean up the Site under the Voluntary Cleanup Program (VCP). After you have addressed our concerns, you may request another review of your cleanup. Please do not hesitate to request additional services as your cleanup progresses. We look forward to working with you.

For more information about the VCP and the cleanup process, please visit our web site: <a href="www.ecy.wa.gov/vcp">www.ecy.wa.gov/vcp</a>. If you have any questions about this opinion, please contact me by phone at (425) 495-5436, or by email at <a href="glynis.carrosino@ecy.wa.gov">glynis.carrosino@ecy.wa.gov</a>.

Sincerely,

Glynis A. Carrosino Project Manager

Toxics Cleanup Program, NWRO

Enclosures: A – Everett Smelter Plume Upland Area Soil Sampling Zones

B – Everett Smelter Table 7-1, Sampling of Residential Properties

cc: Thomas Morin, TRC Companies, (TMorin@trccompanies.com)

Derek Threet, Ecology Assistant Attorney General, (derek.threet@atg.wa.gov)

Sonia Fernandez, VCP Coordinator Ecology (<a href="mailto:sonia.fernandez@ecy.wa.gov">sonia.fernandez@ecy.wa.gov</a>)

# Enclosure A Everett Smelter Plume Upland Area Soil Sampling Zones

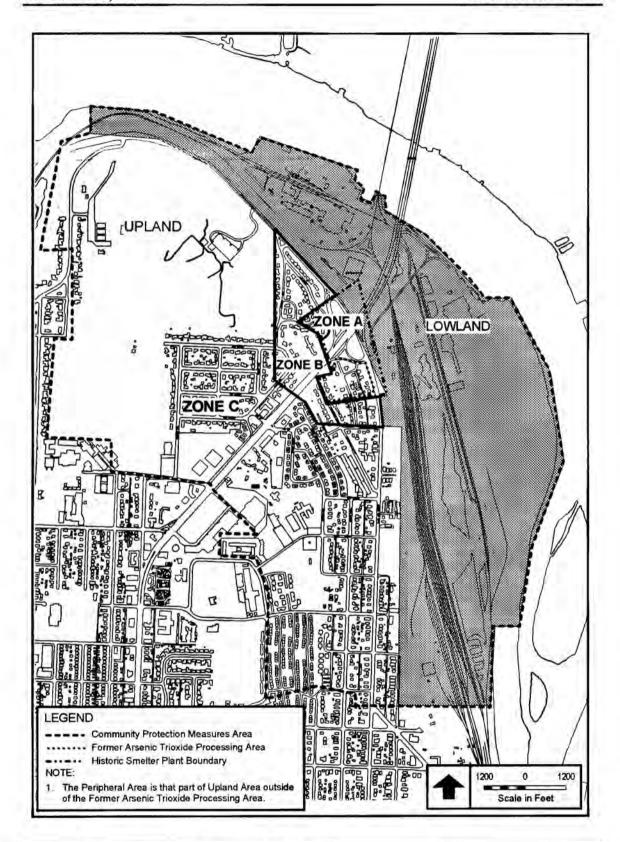


Figure 7-1: Upland Area Soil Sampling Zones.

# Enclosure B Everett Smelter Table 7-1 Sampling of Residential Properties

# Legion Lots Haack Parcels in Zone C

Table 7-1: Residential Properties - Sampling Approach and Decision Rules

Zone A		Zone B		Zone C	
Decision Unit Size (ft²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft²)	Number of Sampling Locations Per Decision Unit	<b>Decision Unit</b> Size (ft²)	Number of Sampling Locations Per Decision Unit
Less than 1,125	5	Less than 1,125	5	Less than 4,000	5
1,125 to 2,250	Add 1 per 225 ft <sup>2</sup>	1,125 to 1,800	Add 1 per 225 ft <sup>2</sup>	Greater than 4,000	Add 1 per 500 ft <sup>2</sup>
2,250 to 4,000	10	1,800 to 4,000	8		
Greater than 4,000	Add 1 per 400 ft <sup>2</sup>	Greater than 4,000	Add 1 per 500 ft <sup>2</sup>		
Composite sampling, Composite sam 6-inch depth intervals to 48 inches 6-inch depth intervals			Composite sampling, 6-inch depth intervals to 24 inches		

- 1. If arsenic concentration in any composite sample is greater than the cleanup level, property is identified as part of the site.
- 2. If arsenic concentration is above the cleamup level in the 0-6 or 6-12 inch depth intervals or above the applicable remediation level in depth intervals below 12 inches, property is identified as requiring soil removal to identified depth.
- 3. If composite results indicate potential for hot spots, conduct discrete sampling.
- If arsenic concentration in any discrete sample is above the maximum allowable concentration at a given depth, remove soil to depth of exceedance.

Attachment D Legion Memorial Golf Course – Revised Additional Subsurface Investigation Work Plan, dated 1-29-2021



January 29, 2021

Mr. Joel Haack Haack Brothers Homes 3922 87<sup>th</sup> Avenue NE Marysville, Washington 98270

Re: Revised Additional Subsurface Investigation Work Plan

Legion Lots 1 through 6

413 and 419 Rockefeller Avenue

Everett, Washington

TRC Project Number: 424198.0000.0000

Dear Mr. Haack:

TRC Environmental Corporation (TRC) is pleased to submit this revised work plan to perform an Additional Subsurface Investigation (ASI) of the Legion Lots Haack Parcels located at approximately 413 and 419 Rockefeller Avenue in Everett, Washington (Site). The Site includes six separate tax parcels (i.e. Lots 1 through 6) of undeveloped land that was sold to Haack Brothers Homes (Haack Brothers) by the City of Everett. The general location of the Site is indicated on Figure 1.

The six lots are within the western boundary of a contaminated Model Toxics Control Act (MTCA) Site identified as the Legion Memorial Golf Course Site (Facility Site ID No. 9311679 and Cleanup Site ID No. 1653) by the Washington State Department of Ecology (Ecology). The source of impacts to that Site is airborne emission of arsenic from the former ASARCO Everett Smelter, which is considered a regional Site with broad impacts, much like the ASARCO Tacoma Smelter Site in Ruston, Washington. The regulatory mechanism for closure of the Legion Memorial Golf Course Site included the use of an Environmental Covenant (EC) that has been interpreted by Ecology as including the six parcels that comprise the Site. The Site is within an area designated as Zone C of the ASARCO Everett Smelter Site, which stipulates the frequency and type of sampling to be performed during environmental assessment.

#### **BACKGROUND**

The Site is currently enrolled in the Ecology Voluntary Cleanup Program (VCP) as Site No. NW3268. Ms. Glynis Carrosino is the Ecology project manager for the Site. It is important to note that the Site is a small part of the larger Legion Memorial Golf Course Site, which has undergone extensive assessment and has completed Ecology's Remedial Investigation/Feasibility Study (RI/FS) process and has achieved regulatory closure. As such, Lots 1 through 6 do not need to again go through the RI/FS process. Rather,

the additional work being performed by Haack Brothers is to maintain compliance with the prior EC and regulatory closure and seeks to assess additional actions that may be necessary to remove Lots 1 through 6 from the EC.

Additionally, the City of Everett previously allowed fill material from retention pond construction to be stored on the Legion Lots. Placement of this fill was inconsistent with the requirements of the EC and was not pre-approved by Ecology as required. The fill material was reportedly tested and was determined to be "clean" and was used as fill material in the Lowland portion of the Everett Smelter Cleanup Site. Significant amounts of fill remained on the Site covering the historical golf course surface grade. After removal of some of the fill, a contractor for the City of Everett collected three soil samples from around the area of the former fill stockpile. One of those samples, named "Site 3 (North)" contained concentrations of arsenic and lead exceeding applicable cleanup levels. Based on the limited available documentation, that sample appears to have been obtained from a location near the boundary of Lots 5 and 6. The sample location was not surveyed or referenced with any directions or distances from a fixed point. There is no documentation regarding sampling protocols or whether the samples were collected by a professional. There was no written report documenting any of the sampling procedures or results.

Environmental Partners, Inc. (EPI) <sup>1</sup>, a TRC Company, completed a Targeted Subsurface Investigation of the Site in December 2019. The Targeted Subsurface Investigation included investigation of Lot 5 and Lot 6 to assess soil quality in native soil beneath the fill material placed by the City of Everett. Eight soil samples were collected at Lots 5 and 6 at the Site. Soil samples were collected and submitted for analysis of arsenic, cadmium, and lead by U.S. Environmental Protection Agency (EPA) Method 6020. All soil sample results were at concentrations less than the Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) for arsenic, cadmium, and lead.

TRC submitted an Additional Subsurface Investigation (ASI) Work Plan, dated, February 28, 2020. The ASI Work Plan summarized both the findings of the Targeted Subsurface Investigation to Ecology and proposed sampling procedures for the Lots 1 through 4. As part of this submittal TRC requested an opinion from Ecology through the VCP.

Ecology's opinion letter, dated, November 30, 2020, requested a broader scope of investigation of the Legion Lots Haack Parcels than presented in the ASI Work Plan. This revised ASI Work Plan incorporates those Ecology comments. Implementing this scope will be a minimum requirement for considering the Site fully characterized and in support of an eventual No Further Action (NFA) determination. If this revised ASI Work Plan does not identify impacts to soil at a concentration exceeding a CUL or action level, no additional investigation will be required. If soil impacts at concentrations greater than a CUL or action level are identified, it may be necessary to perform limited additional assessment or even remediation in order to obtain the NFA determination.

Ecology requested that the ASI Work Plan meet the sampling requirements referenced in Ecology's "Table 7-1: Residential Properties - Sampling Approach and Decision Rules" (Table 7-1). The Site is

<sup>&</sup>lt;sup>1</sup> TRC acquired EPI on December 27, 2019. For the purposes of this document and project EPI and TRC may be used synonymously.



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within the boundaries of Zone C of the Everett Smelter Plume Upland Area Sampling Zones. Ecology's opinion letter and the Everett Smelter Plume sampling requirements are included as Attachment A.

Table 7-1 requires five sampling locations in an area of 4,000 square feet or less. One additional sampling location is required for each additional 500 square feet. Each lot is 6,600 square feet and will require 10 sampling locations to meet the requirements of Table 7-1. This results in a total of 60 borings across the six lots in the general areas indicated on Figure 2. Boring locations may be adjusted slightly based on access and subsurface conditions but will generally provide "grid" based data for planning and estimating if remediation is required. Each grid square will represent approximately 660 square feet and each 1-foot depth within a grid square will represent approximately 24 cubic yards of soil.

#### ADDITIONAL SUBSURFACE INVESTIGATION

#### **Soil Sampling**

This task includes mobilization to the Site to advance 60 soil borings using direct-push technology (DPT) and collecting the necessary soil samples from Lots 1 through 6.

The 60 soil borings will be advanced to a total depth of 10 feet below ground surface (bgs). Soil conditions at each location will be logged using the Unified Soil Classification System with visual-manual procedures (ASTM Method 2488D).

Soil samples will be collected continuously using standard DPT methods. It is anticipated that up to two soil samples from the fill and two soil samples from the underlying native soil will be collected and submitted for analysis. If the fill material is less than 2-feet thick or nonexistent in some locations, fewer fill samples will be necessary.

In general, up to four soil samples will be retained and submitted for laboratory analysis from each boring. This will result in up to a total of 240 soil samples and 24 duplicate samples for a total of 264 samples for analysis. Ecology requires that 10 percent of samples be submitted as "blind" duplicates as a check on laboratory quality control.

At each location, two discrete soil samples will be collected from the fill at depths of 6 to 12 inches and 18 to 24 inches bgs. The placed fill at the Site was observed to be approximately 3.5 feet to 5 feet thick during the Targeted Subsurface Investigation. Additionally, two soil samples will be collected in the underlying native soils at depths of 0 to 6 inches and 18 to 24 inches below the fill-native soil interface. The samples from the fill material must be discrete, at the direction of Ecology. The samples from the native soils may be homogenized over the 6-inch sample interval before being placed within the sample containers.

Samples will be collected with single-use disposable equipment and placed directly into new, pre-labeled 4-ounce laboratory-supplied glass jars with Teflon lined lids. Filled sample containers will be placed in cooler with enough double bagged ice to maintain an internal temperature of 4 degrees Celsius or cooler.



All samples will be handled and transported under standard chain-of-custody protocols and submitted for analysis under standard 2-week laboratory turnaround time.

#### **Laboratory Analysis**

Samples will be labeled and placed into an iced cooler pending submittal to Friedman & Bruya, Inc. (FBI) Laboratories in Seattle, Washington. FBI is accredited by Ecology to perform the requested analyses.

Each of the 240 soil samples and 24 duplicate samples will be submitted for laboratory analysis of arsenic, cadmium, and lead using EPA Method 6020A under standard turnaround time. This analysis utilizes Inductively Coupled Plasma and Mass Spectroscopy (ICP-MS).

Laboratory quality assurance/quality control (QA/QC) procedures will include duplicate analyses, matrix spike, and matrix spike duplicates to evaluate both accuracy and precision of the laboratory methods. Analytical results that are outside of laboratory control limits will be flagged with an appropriate data qualifier and re-analyzed. Analytical data reports will include internal laboratory QA/QC results.

#### **Health and Safety Plan**

A project-specific Health and Safety Plan (HASP) for investigation activities is required by the Code of Federal Regulations (CFR) Title 29 1910.120 and by the Washington State Department of Labor and Industries and under Washington Administrative Code (WAC) 173-340-810. The HASP is a document that establishes site objectives, anticipates job hazards, provides implementation of a hazard communication and injuries/illness prevention program, and establishes policies and procedures to be followed in both routine and emergency situations.

The HASP for this project is presented in Attachment B.

#### **Utility Locating**

TRC will notify Washington One-Call Service to identify publicly owned subsurface utilities at the Site. The notification will be initiated a minimum of 3 business days prior to scheduled field activities. In addition, TRC will have a private utility locator clear each sampling location prior to advancing borings. TRC is not responsible for damage to utilities that cannot be located and are not identified.

#### **Investigation-Derived Waste**

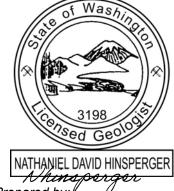
The proposed scope of services will generate investigation-derived waste (IDW) in the form of soil cuttings, excess soil cores, and decontamination water. Under current waste disposal regulations and laws, the landowner is considered the "generator" for those wastes. TRC is not the generator of these wastes and has no ownership or liability for those wastes. IDW will be placed in labeled drums and temporarily stored at the Site. The IDW will be profiled for disposal using the data obtained from analysis of the samples proposed herein. TRC will subcontract, on the generator's behalf, for transportation and disposal of the IDW off-Site at an appropriate facility. The estimated costs for transportation and disposal



of wastes will be based on the analytical results and the accepting facility. The actual costs may vary from the estimated costs.

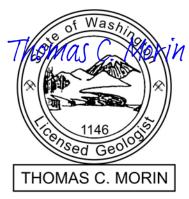
If after reviewing this revised ASI Work Plan you have any questions or need additional information, please feel free to call me at (425) 395-0010.

Sincerely,



Prepared by:

Nate D. Hinsperger, L.G.
Senior Geologist/Project Manager



Reviewed and approved by: Thomas C. Morin, L.G. Principal Geologist / PNW Area Leader

cc: Mr. Doug Steding, Northwest Resource Law (Counsel to Haack Brothers)

#### **ENCLOSURES**

**Figures** 

Figure 1 Site Vicinity Map

Figure 2 Site Representation Showing Proposed Soil Boring Locations

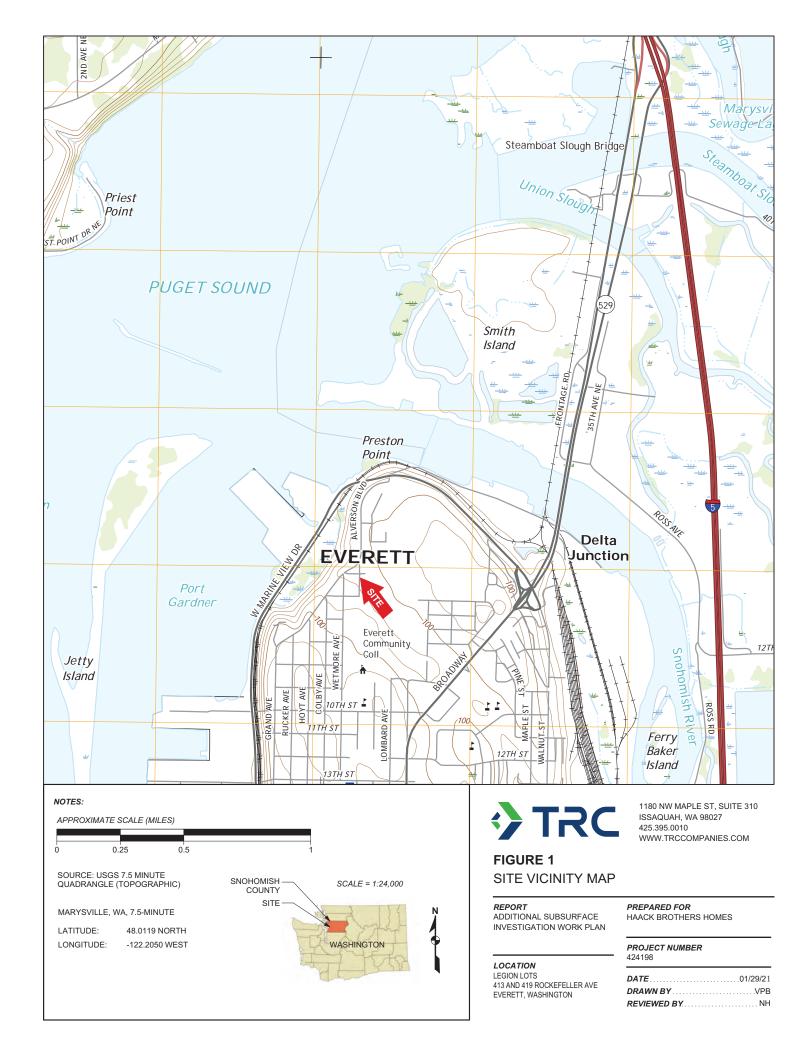
**Attachments** 

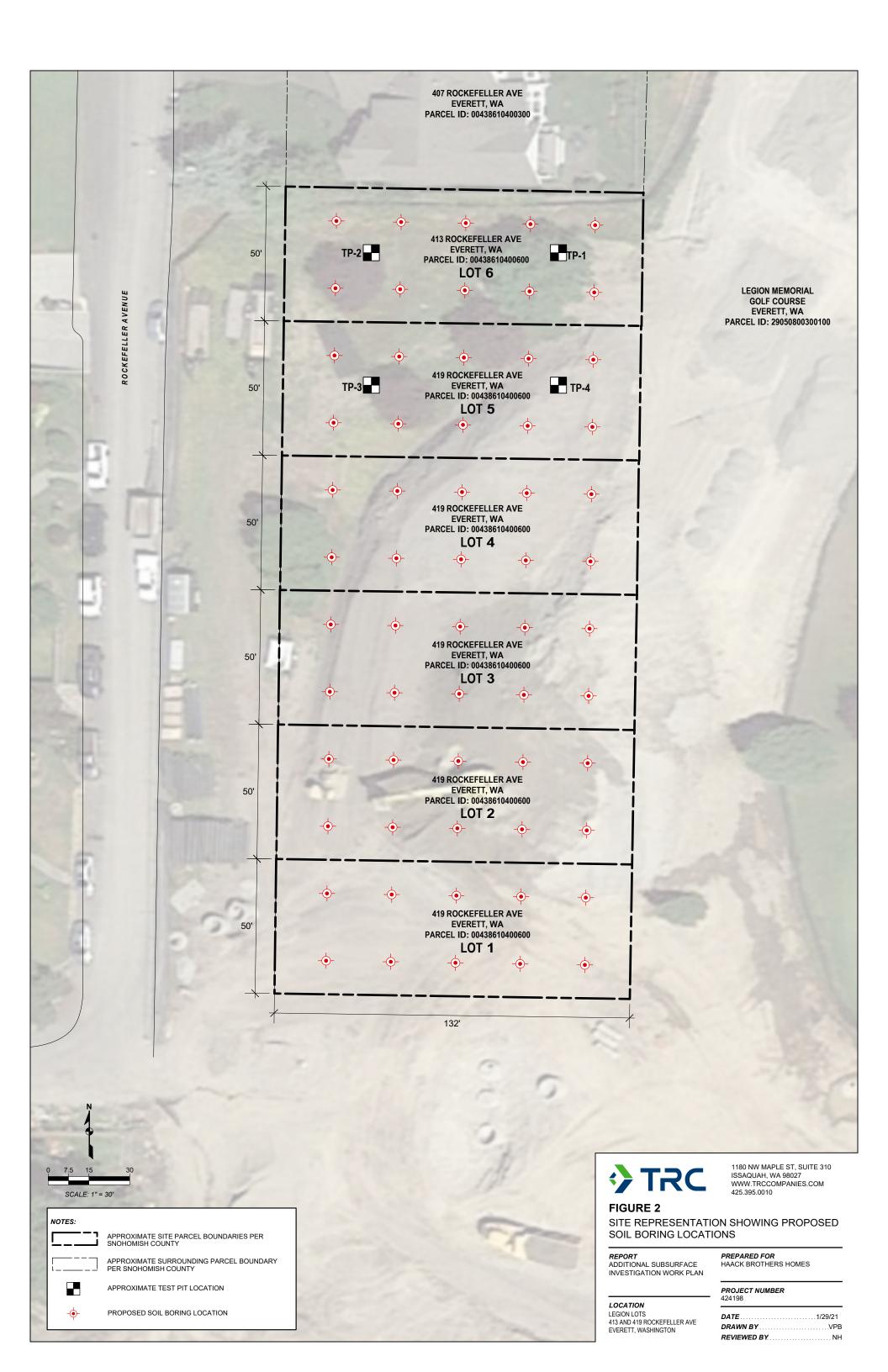
Attachment A Ecology Opinion Letter, November 30, 2020

Attachment B Health and Safety Plan



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Attachment A Ecology Opinion Letter November 30, 2020



# **Electronic Copy**

# STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000 711 for Washington Relay Service • Persons with a speech disability can call (877) 833-6341

November 30, 2020

Joel Haack Haack Brothers Homes 3922 87<sup>th</sup> Avenue NE Marysville, WA 98270 (joel@haackbrothers.com)

Re: Opinion Pursuant to WAC 173-340-515(5) on Remedial Action for the Following Hazardous Waste Site:

• Site Name: Legion Lots Haack Parcels

• Site Address: 413-419 Rockefeller Avenue, Everett, Washington, 98201

Facility/Site ID No.: 9311679
Cleanup Site ID No.: 1653
VCP Project No.: NW3268

#### Dear Joel Haack:

The Washington State Department of Ecology (Ecology) received your request for an opinion on the *Additional Subsurface Investigation Work Plan Legion Lots 1 through 4 (Work Plan)* for the **Legion Lots Haack Parcels** (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

#### **Issue Presented and Opinion**

Pursuant to implementation of the activities specified in the *Additional Subsurface Investigation Work Plan*, will the collected information assist in resolving Site characterization data gaps?

YES. Ecology has determined that implementing the Work Plan will assist in determining the effectiveness of the interim cleanup action and resolving identified data gaps. However, additional subsequent soil, soil gas, and possibly groundwater sampling and evaluation may be necessary to complete the evaluation of remedial action process.

## **Description of the Site**

This opinion applies only to the Site described below. The Site is defined by the nature and extent of contamination associated with the following release:

Arsenic into the Soil.

**Enclosures A and B** include a detailed diagram of the Everett Smelter Plume sampling zones, and Table 7-1 (residential sampling).

Please note a parcel of real property can be affected by multiple sites. At this time, we have information that the parcels associated with this Site are affected by:

- Legion Memorial Golf Course NW2017 (Upland) 2008 Environmental Covenant institutional controls and restrictions
- Everett Smelter Plume upland areas soil sampling requirements (Zone C)

## **Basis for the Opinion**

This opinion is based on the information contained in the following documents:

- 1. TRC Companies, Additional Subsurface Investigation Work Plan, Legion Lots 1 through 4, 144 West Marine View Drive/419 Rockefeller Avenue, Everett, Washington, dated February 28, 2020.
- 2. Legion Memorial Golf Course Property Sale Notification, Legion Lots 1 through 4, 144 West Marine View Drive/419 Rockefeller Avenue, Everett, Washington, dated September 18, 2019.
- 3. Washington Department of Ecology, *Scope of Work, Task Work Assignment, Everett Smelter Uplands Project, Residential Sampling,* Fiscal Year 2018-2019.
- 4. Legion Memorial Golf Course (Upland) Environmental Covenant; Recording Number 200812050469; Recording date 12/5/2008.

Those documents are kept in the Central Files of the Northwest Regional Office of Ecology (NWRO) for review by appointment only. You can make an appointment by completing a Request for Public Record form (<a href="https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests">https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests</a>) and emailing it to <a href="https://ecordsOfficer@ecy.wa.gov">PublicRecordsOfficer@ecy.wa.gov</a>, or contacting the Public Records Officer at 360-407-6040. A number of these documents are accessible in electronic form from the Site web page (<a href="https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653">https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653</a>).

This opinion is void if any of the information contained in those documents is materially false or misleading.

# **Analysis and Opinion**

Based on a review of supporting documentation listed above, **Ecology has the following comments:** 

### **Site Characterization**

- Your characterization of the Site documented impacts to soil related to historical particulate emissions releases from the former ASARCO smelter facility. The soil was found to be impacted with varying concentrations of arsenic which exceeded MTCA Method A cleanup levels. The Site is within the boundary of the upland portion of the Everett Smelter Plume Cleanup Site. The Everett Smelter Plume Cleanup Site is divided into three zones for soil sampling protocols: Zone A, Zone B and Zone C. The Site, which consists of Lots 1 through 6, is located within Zone C.
- Fill material from a City of Everett retention pond construction project was stored on the Legion Memorial Golf Course Lots. The original land surface on the Property was leveled and up to approximately 5 feet of fill material was placed on the Property. Prior to disposal, the excess fill material was tested and determined to contain arsenic that was either non-detectable or below MTCA Method A cleanup levels. Three soil samples were later taken around the stockpile. No information was provided whether samples were taken in or on the stockpile. One sample, near the boundary of Lots 5 and 6, contained concentrations of arsenic and lead above MTCA Method A cleanup levels.

A targeted collection and analysis of eight samples of native soil (0 to 18 inches and 18 to 24 inches) beneath the fill in four test pits (TP-1 though TP-4) on Lots 5 and 6 was conducted in late 2019. These analytical data indicated that concentrations of arsenic, cadmium and lead either non-detectable or below MTCA Method A cleanup levels were present in the native soil.

• Additional assessment borings in the remaining Lots 1 through 4 are proposed in the Work Plan to further delineate native soil for arsenic, lead or cadmium contamination at the Site. Everett Smelter Plume Cleanup Site Zone C protocols should be followed.

Soil samples collected in test pits of Lots 5 and 6 in 2019 were collected in native material at depths of 0 to 12 inches and 18 to 24 inches below the fill. The soil samples

proposed in the Work Plan will be collected from 0 to 6 inches and 12 to 18 inches below the fill. The Work Plan should indicate the reason for this difference in sampling interval depths.

Additional assessment borings should be added to the Work Plan for collection and analysis of the fill material (non-native soil) on the six lots to provide a complete Site characterization. If test pit samples show exceedances, deeper borings should be drilled into the native soil.

The Work Plan (page 3) states that representative material from a target sampling interval will be placed in a bowl and 'homogenized' with a spoon before being placed in a sample container. This procedure is the same as compositing the sample which Ecology does not accept. The soil samples need to be discrete. The samples should be collected directly from the test pit wall and placed in the sample containers.

Also, the Work Plan states that soil samples below depths of 4 feet in the test pits will be collected with a backhoe bucket. The Work Plan needs to describe how the backhoe bucket will be decontaminated between samples and test pits to prevent cross-contamination.

#### **Regulatory Assessment**

The Site is located in a mixed commercial and industrial area; Soil cleanup levels suitable for unrestricted land use are therefore applicable to this Site. For unrestricted land use, direct contact, either MTCA Method A or Method B cleanup levels can be used.

The MTCA Method A soil cleanup levels for unrestricted uses are appropriate (Table 740-1) to consider, and have been selected, with the standard point of compliance for direct contact throughout the Site to a depth of 15 feet below the ground surface (reference WAC 173-340-740(6)(d)). Method A cleanup levels for soil were established based on direct contact and the protection of ground water.

The MTCA Method A groundwater cleanup levels for unrestricted uses are appropriate to consider. Groundwater cleanup levels protective of ground water as a drinking water source are appropriate for this Site. The standard point of compliance for groundwater applies to this Site, which is throughout the Site, from the uppermost level of the saturated zone extending vertically to the lowest depth which could potentially be affected by the Site.

Cleanup levels for air are based on protection of human health. MTCA Method B indoor air cleanup levels and MTCA Method B sub-slab screening levels are the appropriate

choice (MTCA Method A values do not exist). The standard point of compliance for air is in ambient and indoor air throughout the Site.

Everett Smelter Plume: The Legion Memorial Golf Course VCP #NW3268 is located within an area affected by Everett Smelter Plume emissions, and within the area designated as the Everett Smelter Uplands Project.

The Everett Smelter Site was established as a contaminated Site by Ecology in 1990, following the discovery of high concentrations of metals from the former ASARCO smelting facility. To date, this Site encompasses much urban development that was built both in and around the footprint of the former smelter facility. Ecology has divided the Everett Smelter Site into two investigation areas, the Upland Area and the Lowland Area, and has mapped the area into three zones: Zone A, Zone B and Zone C. The Legion Memorial Golf Course Site is located within Zone C.

The Everett Smelter Plume Upland Area Soil Sampling Zones (Enclosure A), and the Everett Smelter Table 7-1, Sampling of Residential Properties (Enclosure B) have been provided for your information.

Legion Memorial Golf Course (Upland) Environmental Covenant 200812050469 dated 12/5/2008: This Environmental Covenant (EC) is on the title report associated with the Legion Lots Haack Parcels Property. The EC stipulates various soil restrictions including: restrict land use, prohibit soil disturbance, ongoing maintenance of remedy, and prohibit removal or alteration of existing buildings. Ecology's legal council will evaluate whether to terminate or amend the EC for the six Legion Lots Haack parcels once an effective, final remedial action has been selected and implemented. If the existing EC is terminated, a new EC will need to be prepared to replace it and include any new identified restrictions.

#### **Other Requirements**

- Under Washington State Law (Chapters 18.43 and 18.220 RCW), hydrogeologic and engineering work must be conducted by or under the supervision of a licensed geologist, hydrogeologist, or professional engineer (PE) qualified to conduct the work. Any document containing geologic or engineering work must be submitted under the seal of such an appropriately licensed professional. Thank you for providing the seal of your licensed hydrogeologists as evidence of this certification in the reports submitted to Ecology for this Site.
- A Terrestrial Ecological Evaluation (TEE) has not yet been performed at this Site. The

TEE is necessary to meet substantive requirements of MTCA, to set cleanup levels that are protective of terrestrial species, and to determine an appropriate cleanup action.

- Electronic submittal of all sampling data into Ecology's electronic *Environmental Information Management* (EIM) database is a requirement in order to receive a final Ecology opinion for this Site. Note that all data must be uploaded into the Ecology EIM system upon submission of each report to Ecology. This allows the Ecology Site Manger to access data to check results or perform additional analyses with those data. Suzan Pool (email <a href="mailto:suzan.pool@ecy.wa.gov">suzan.pool@ecy.wa.gov</a>, or via telephone at 360-407-6692) is Ecology's contact and resource on entering data into EIM. The most recent EIM date submission for this Site was dated February 22, 2019.
- The final cleanup action selected for the Site must meet the minimum requirements specified in WAC 173-340-360(2).

#### **Limitations of the Opinion**

# 1. Opinion does not settle liability with the state.

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

#### 2. Opinion does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

### 3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

#### **Contact Information**

Thank you for choosing to clean up the Site under the Voluntary Cleanup Program (VCP). After you have addressed our concerns, you may request another review of your cleanup. Please do not hesitate to request additional services as your cleanup progresses. We look forward to working with you.

For more information about the VCP and the cleanup process, please visit our web site: <a href="www.ecy.wa.gov/vcp">www.ecy.wa.gov/vcp</a>. If you have any questions about this opinion, please contact me by phone at (425) 495-5436, or by email at <a href="glynis.carrosino@ecy.wa.gov">glynis.carrosino@ecy.wa.gov</a>.

Sincerely,

Glynis A. Carrosino Project Manager

Toxics Cleanup Program, NWRO

Enclosures: A – Everett Smelter Plume Upland Area Soil Sampling Zones

B – Everett Smelter Table 7-1, Sampling of Residential Properties

cc: Thomas Morin, TRC Companies, (TMorin@trccompanies.com)

Derek Threet, Ecology Assistant Attorney General, (derek.threet@atg.wa.gov)

Sonia Fernandez, VCP Coordinator Ecology (<a href="mailto:sonia.fernandez@ecy.wa.gov">sonia.fernandez@ecy.wa.gov</a>)

# Enclosure A Everett Smelter Plume Upland Area Soil Sampling Zones

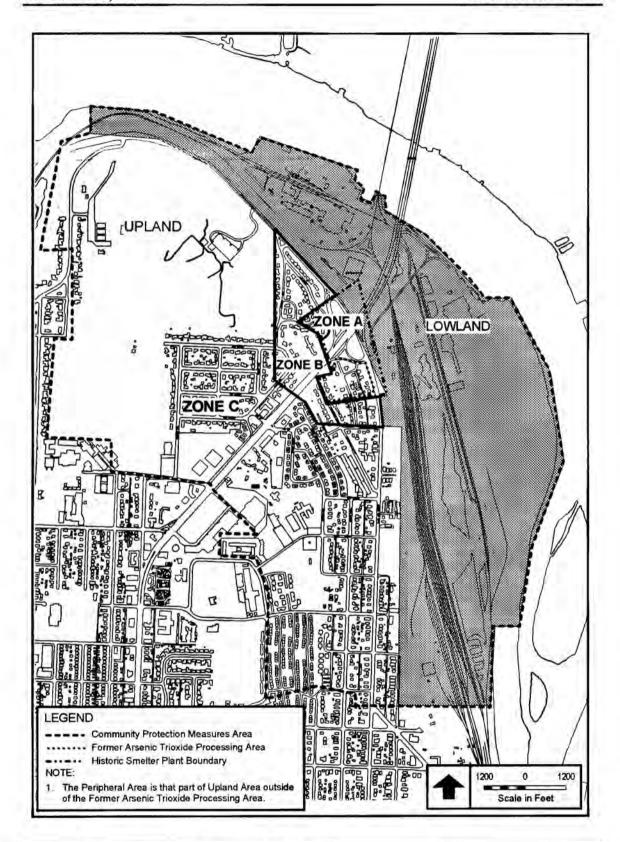


Figure 7-1: Upland Area Soil Sampling Zones.

# Enclosure B Everett Smelter Table 7-1 Sampling of Residential Properties

# Legion Lots Haack Parcels in Zone C

Table 7-1: Residential Properties - Sampling Approach and Decision Rules

Zone A		Zone B		Zone C	
Decision Unit Size (ft²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft²)	Number of Sampling Locations Per Decision Unit	<b>Decision Unit</b> Size (ft²)	Number of Sampling Locations Per Decision Unit
Less than 1,125	5	Less than 1,125	5	Less than 4,000	5
1,125 to 2,250	Add 1 per 225 ft <sup>2</sup>	1,125 to 1,800	Add 1 per 225 ft <sup>2</sup>	Greater than 4,000	Add 1 per 500 ft <sup>2</sup>
2,250 to 4,000	10	1,800 to 4,000	8		
Greater than 4,000	Add 1 per 400 ft <sup>2</sup>	Greater than 4,000	Add 1 per 500 ft <sup>2</sup>		
Composite sampling, Composite sam 6-inch depth intervals to 48 inches 6-inch depth intervals			Composite sampling, 6-inch depth intervals to 24 inches		

- 1. If arsenic concentration in any composite sample is greater than the cleanup level, property is identified as part of the site.
- 2. If arsenic concentration is above the cleamup level in the 0-6 or 6-12 inch depth intervals or above the applicable remediation level in depth intervals below 12 inches, property is identified as requiring soil removal to identified depth.
- 3. If composite results indicate potential for hot spots, conduct discrete sampling.
- If arsenic concentration in any discrete sample is above the maximum allowable concentration at a given depth, remove soil to depth of exceedance.

Attachment B Health and Safety Plan



Exposure:

## **Health and Safety Plan**

Site Name:	Legion Lots					
Site Address:	413 and 419 Rockefeller Avenue, Everett, Washington					
TRC Project Number:	015446					
Client:	Haack Brothers Ho	omes	Phone: (4	Phone: (425) 397-7360		
Site Contact:	Joel Haack		Phone: (4	25) 397-7	7360	
Client Health and Safety Representative	N/A		Phone: N	/A		
Planned Activities:		Location Withi	n Site:		Dates:	
Utility locate, test pit excavation, drilling, soil sampling		Lots 1 through 6 at 413 and 419 Rockefeller Avenue			January through December 2021	
Estimation of Hazards	to TRC Personnel:					
Arsenic, lead, and cadr	nium in soil, mechanica	l equipment, subs	surface utilitie	s, CoVid-	19.	
Physical Description	of the Facility:					
Vacant Site in residenti	al neighborhood. Topo	graphy is general	ly flat with ve્	getative c	cover.	
Operation Description	of the Facility:					
Vacant Site in residenti	al neighborhood adjace	nt to golf course.				
Facility Status:						
Vacant properties in a r	residential neighborhood	d.				
Hazard Assessment						
Chemical State:	Liquid	Solid		Gas		
	☐ Vapor	Unknow	n			
Chemical	Corrosive	☐ Flammal	ble 🖂	Toxic		
Characteristics:	☐ Volatile	☐ Inert		Other:		
Describe Potential Chemical Hazards and Modes of Exposure						
Chemical Hazards:	Arsenic, lead, and cadmium in soil.					
Potential Modes of	Primary mode: Inhalation, Secondary mode: ingestion. Potential dust hazard					

during test pit excavation. Will monitor for dust during test pit excavation.

Chemical Ac		ction Levels		Exposure	Target	_
Name	PEL	STEL	IDLH	Route	Organs	Symptoms
Metals						
Arsenic	0.002 mg/m <sup>3</sup>	0.010 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Inhalation, skin absorption, skin/eye contact, ingestion	Liver, kidneys, skin, lungs, lymphatic system	Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation o skin [potential occupational carcinogen]
Cadmium	0.005 mg/m <sup>3</sup>		9 mg/m³	Inhalation, ingestion	Respiratory system, kidneys, prostate, blood	Pulmonary edema, breathing difficulty, cough, chest tightness, sub sternal (chest) pain, headache, chills, muscle aches, nausea, vomiting, diarrhea, loss of sense of smell, emphysema, proteinuria, mild anemia, [potential occupational carcinogen]
Lead	0.050 mg/m <sup>3</sup>		100 mg/m <sup>3</sup>	Inhalation, ingestion, skin/eye contact	Eyes, gastrointestina I tract, CNS, kidneys, blood, gingival tissue	Weakness, exhaustion, insomnia, facial pallor, anorexia, weight loss, malnutrition, constipation, abdominal pain, colic, anemia gingival lead line, tremor, paralysis, wrist, ankles, encephalopathy, kidney disease, irritation eyes, hypertension

#### **Describe Potential Physical Worker Hazards:**

Heavy equipment, slip, trip, and fall, cold stress, potential COVID-19 exposure (see COVID-19 attachments).

Poter	itial Physical Hazards			
	Heat Stress	$\boxtimes$	Cold Stress	Explosion/Flammability
$\boxtimes$	Noise		Confined-Space Entry	Oxygen-Deficient Atmosphere
	Traffic or heavy equipment		Heights	Slip, trip, fall
	Overhead hazards		Dust (non-toxic)	Other:

Prevention of Physical Hazards					
Category	Cause	Preventive Measures			
Head Hazards	Falling and/or sharp objects, bumping hazards.	Hard hats will be worn by all personnel at all times when working around overhead hazards and heavy equipment.			



Sharp objects, dropped objects, uneven

Chemical resistant, steel-toed boots must

Foot/Ankle Hazards

1 OUTAINE Hazards	and/or slippery surfaces, and chemical exposure.				orn at all times o	n-site.	
Eye Hazards	Sharp objects, poor lighting, bright lights (welding equipment), exposure due to splashes.			when	Safety glasses/face shields will be worn when appropriate. Shaded welding protection will be worn when appropriate.		
Electrical Hazards	Underground utilities motors, electrical pa breakers.				inspe	Locator service mark-outs, visual inspection of work area prior to starting work.	
Mechanical Hazards	Heavy equipment su trucks, excavation e etc.				, regul	Competent operators, backup alarms, regular maintenance, daily mechanical checks, proper guards.	
Noise Hazards		Machinery creating >85 decibels TWA, >115 decibels continuous noise, or peak at >140 decibels.				Wear earplugs or protective earmuffs.	
Fall Hazards	Elevated and/or slippery or uneven surfaces. Trips caused by poor "housekeeping" practices.			accid "hous must	Care should be used to avoid such accidents and to maintain good "housekeeping". Fall protection devices must be used when work proceeds on elevated surfaces.		
Lifting Hazards	Injury due to improper lifting techniques, overreaching/overextending, heavy objects.				Use proper lifting techniques, mechanical devices where appropriate.		
Lighting Hazards	Improper illumination.			Limit work to daylight hours or rent additional construction lighting.			
Site Activity Conside							
Will Client Site Repres	entative be Present	?		Yes		No	Sometimes
Exact Locations of Ch	emicals:			Know	n 🖂	Assumed	Unknown
Identify Nearest Off-Site Population:				Rural Urbar		Industrial Commercial	⊠ Residential
							_
Monitoring Equipme		_			_		
	⊠ PID ☐ FID						e gas indicator
☐ Colorimetric tubes ☐ Particulate meter					Carbon mor	noxide meter	
H <sub>2</sub> S/O <sub>2</sub> Meter	Otl	ner (d	describe	e):			
Monitoring Action G		_					
Instrum	ent	Rea	ading/C vatior		oser Action Required		equired
Particulate Meter		Obs	servable	e dust	Notify Project Manager to determine potential engineering controls		

See Potential

Chemical Hazards Section Above



**Evacuate all workers from work area. Notify Project Manager and Company** 

**Safety Officer** 

Special Safety Considerations						
If there is more than one level of hazard, or if there are multiple "sites" within a site, the hazards associated with each should be considered. A separate "Special Safety Considerations" section should be completed for each "site."						
Work Location: Lots 1 through 4 at 319 Rockefeller Avenue						
Objective of work at this Location: Test pit advancement, soil sampling						
Level of Protection Planned: Level C Level D Level D-Modified (explain below)						
Modifications to Level of Protection: Hard hat, safety glasses, steel toe boots, and hearing protection required when working near drill rigs or heavy equipment. DOT-approved safety vest required when working near vehicle traffic or heavy equipment. N95 or KN95 face mask worn when in the presence of other people for COVID-19 mitigation. Workers to travel in separate vehicles to maintain safe distancing. See COVID-19 attachments: CP052.1 COVID-19 Guidelines for Field Activities and TRC COVID-19 Questionnaire rev 23.31.20.						

Types of PPE to be Used				
Foot	Steel-toed, steel shank boots. Rubber steel toed boots or rubber boot covers required if boot decontamination is warranted.			
Hand	Double layer of nitrile gloves when handling potentially contaminated media, temperature-appropriate gloves for protection during cold weather.			
Eye/Face	Safety glasses			
Clothing	Temperature appropriate, long pants are required. Tyvek coveralls should be available to all on-site workers.			
Respiratory	Based on monitoring requirements (full- or half-face respirator should be available to all on-site workers).			
Additional Gear	Hardhat, earplugs, face shield, DOT-approved safety vest			

Work Party		
Name	Responsibility	Level of Protection
Wes Weisberg	Site Supervisor	Level D



#### **Site Entry Procedure**

Upon site arrival but before walking onto the property, send an email with the following information to the Project Manager and to <a href="mailto:onsite-iss@trccompanies.com">onsite-iss@trccompanies.com</a>:

- Property address
- Who is with you at the job site (if anyone)
- Description and license number of the vehicle you are using
- · What time you anticipate leaving the property

When leaving the site for the day, send another email to the Project Manager and <a href="mailto:onsite-">onsite-</a>
<a href="mailto:iss@trccompanies.com">iss@trccompanies.com</a>
stating that you are off-site. The email can be as simple as: "It's 5:00pm and I'm leaving the property."

#### **Criteria for Changing Personal Protection**

Air monitoring threshold limits. When visible dust is noted.

#### **Criteria for Implementing Engineering Controls:**

When air monitoring threshold limits are exceeded.

#### **Decontamination Procedures**

Remove PPE and wash hands and face prior to eating or leaving Site. Eye wash kit, washing dermal with soap and water

#### Work Limitations (i.e., time of day, conditions, etc.)

Daylight hours only.

#### **Placement of Disposable Materials**

N/A

#### Placement of Investigation-Derived Residuals (i.e., drilling spoils, decon. water, purge/dev. water)

Test pit spoils will be placed back into excavation.

#### **Location of Nearest:**

Cellular Phone: With TRC field representative

Running Water: N/A

Public Road: Rockefeller Road

Lavatory: N/A

Emergency Planning					
Service	Name	Number			
Local Police:	Everett Police Department	911			
Local EMS:	Everett Fire Department	911			
Local Fire Department:	Everett Fire Department	911			
Local Hospital:	Providence Medical Center	(425) 261-2000			
Client Contact:	Joel Haack	(425) 397-7360			



Site Phone Number:	Nate Hinsperger	(206) 851-3312
TRC Office (425-395-0010)	Douglas Kunkel	425-395-0016 office 425-241-8170 cell

#### **Directions to Nearest Medical Facility (Map Attached):**

The recommended route to Providence Medical Center is highlighted on attached map. The hospital is located approximately 0.9 miles from the site.

Approvals				
Title	Signature	Date		
Site Safety Officer, Wes Weisberg				
Project Manager, Nate Hinsperger				
Company H&S Officer, TRC Safety Officer, Doug Kunkel				

Additional Site Personnel					
Printed Name and Company	Approvals Signature	Date			



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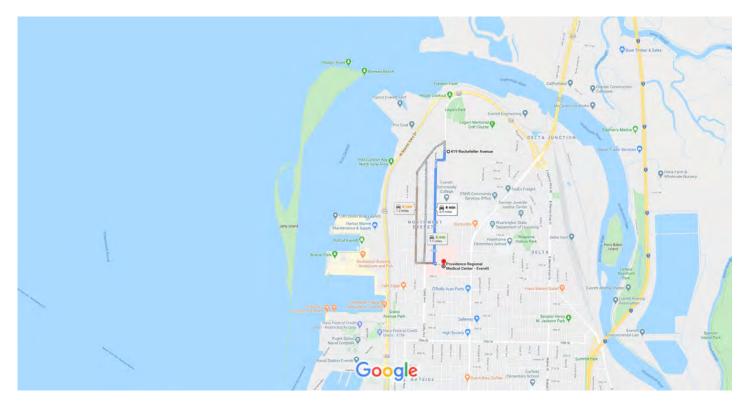
## **Daily Safety Meeting**

Date: TRC Project Number:  Site Address: TRC Personnel Conducting Meeting:    Chemicals of Potential Concern   Hard Hat   Eye Protection   Traffic (Vehicle and Pedestrian)   High-Visibility Cothing   High-Visibility Cothing   Falls   High-Visibility Cothing   Protective Footwear   Coveralls   Protective Footwear   Protective Footwear   Exclusion Zone (Cones, Signs, Etc.)   Other, Describe:   Other, Describe:   Decon, Emergency Signals, Rally Point, Etc.   Print Aid Kit   Protective Footwear   Print Aid Kit   Print Aid Kit   Protective Footwear   Print Aid Kit   Print Aid Kit   Protective Footwear   Print Aid Kit   Protective Footwear   Print Aid Kit   Protective Footwear   Protecti			
Site Address:  TRC Personnel Conducting Meeting:    Known or Suspected Potential Hazards	Date:		
TRC Personnel Conducting Meeting:	TRC Project Number:		
Known or Suspected Potential Hazards  Chemicals of Potential Concern Traffic (Vehicle and Pedestrian) Trips High-Visibility Clothing Falls Flame-Resistant Clothing Protective Footwear Coveralls Noise Hearing Protection Hearing Protection Respirator Utilities, Subsurface, and Overhead Other, Describe:  Decon, Emergency Signals, Rally Point, Etc. Fire Extinguishers Eye Wash First Aid Kit Nearest Medical Facility Nearest Medical Facility Respirator Guerals Decon Procedures Primary Rally Point Secondary Rally Point Restroom Respirator Other, Describe:  Decon Procedures Signals for Shutdown Potable Water Primary Rally Point Secondary Rally Point Coveralls Persons Attending Safety Meeting	Site Address:		
Chemicals of Potential Concern       ☐ Hard Hat         Traffic (Vehicle and Pedestrian)       ☐ Eye Protection         Trips       ☐ High-Visibility Clothing         Falls       ☐ Flame-Resistant Clothing         Drilling Equipment       ☐ Protective Footwear         Excavation Equipment       ☐ Coveralls         Noise       ☐ Hearing Protection         Hot/Cold       ☐ Respirator         Utilities, Subsurface, and Overhead       ☐ Exclusion Zone (Cones, Signs, Etc.)         Other, Describe:       ☐ Other, Describe:     **Decon, Emergency Signals, Rally Point, Etc.    Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ High-Visibility Clothing         ☐ Notice Temergency Signals, Point, Etc.       ☐ Primary Rally Point, Etc.         ☐ Postable Water       ☐ Audible Signals for Shutdown         ☐ Primary Rally Point       ☐ Secondary Rally Point         ☐ Restroom       ☐ Other Emergency Info, Describe:         Other, Describe:       ☐ Other Emergency Info, Describe:	TRC Personnel Conducting Meeting:		
Chemicals of Potential Concern       ☐ Hard Hat         Traffic (Vehicle and Pedestrian)       ☐ Eye Protection         Trips       ☐ High-Visibility Clothing         Falls       ☐ Flame-Resistant Clothing         Drilling Equipment       ☐ Protective Footwear         Excavation Equipment       ☐ Coveralls         Noise       ☐ Hearing Protection         Hot/Cold       ☐ Respirator         Utilities, Subsurface, and Overhead       ☐ Exclusion Zone (Cones, Signs, Etc.)         Other, Describe:       ☐ Other, Describe:     **Decon, Emergency Signals, Rally Point, Etc.    Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ High-Visibility Clothing         ☐ Notice Temergency Signals, Point, Etc.       ☐ Primary Rally Point, Etc.         ☐ Postable Water       ☐ Audible Signals for Shutdown         ☐ Primary Rally Point       ☐ Secondary Rally Point         ☐ Restroom       ☐ Other Emergency Info, Describe:         Other, Describe:       ☐ Other Emergency Info, Describe:	·		
Chemicals of Potential Concern       ☐ Hard Hat         Traffic (Vehicle and Pedestrian)       ☐ Eye Protection         Trips       ☐ High-Visibility Clothing         Falls       ☐ Flame-Resistant Clothing         Drilling Equipment       ☐ Protective Footwear         Excavation Equipment       ☐ Coveralls         Noise       ☐ Hearing Protection         Hot/Cold       ☐ Respirator         Utilities, Subsurface, and Overhead       ☐ Exclusion Zone (Cones, Signs, Etc.)         Other, Describe:       ☐ Other, Describe:     **Decon, Emergency Signals, Rally Point, Etc.    Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ High-Visibility Clothing         ☐ Notice Temergency Signals, Point, Etc.       ☐ Primary Rally Point, Etc.         ☐ Postable Water       ☐ Audible Signals for Shutdown         ☐ Primary Rally Point       ☐ Secondary Rally Point         ☐ Restroom       ☐ Other Emergency Info, Describe:         Other, Describe:       ☐ Other Emergency Info, Describe:	Known or Suspected Potential Hazards	Personal Protective Equipment	
☐ Trips       ☐ High-Visibility Clothing         ☐ Falls       ☐ Flame-Resistant Clothing         ☐ Drilling Equipment       ☐ Protective Footwear         ☐ Excavation Equipment       ☐ Coveralls         ☐ Noise       ☐ Hearing Protection         ☐ Hot/Cold       ☐ Respirator         ☐ Utilities, Subsurface, and Overhead       ☐ Exclusion Zone (Cones, Signs, Etc.)         ☐ Other, Describe:       ☐ Other, Describe:     Locations of Emergency Equipment  Decon, Emergency Signals, Rally Point, Etc.  Decon Procedures  ☐ Waste Management ☐ Hand Signals for Shutdown ☐ Hand Signals for Shutdown ☐ Audible Signals for Shutdown ☐ Primary Rally Point ☐ Restroom ☐ Secondary Rally Point ☐ Secondary Rally Point ☐ Other, Describe: ☐ Other, Describe: ☐ Other Emergency Info, Describe: ☐ Other Emergency Info, Describe: ☐ Other Emergency Info, Describe:		<b>-</b>	
☐ Falls       ☐ Flame-Resistant Clothing         ☐ Drilling Equipment       ☐ Protective Footwear         ☐ Excavation Equipment       ☐ Coveralls         ☐ Noise       ☐ Hearing Protection         ☐ Hot/Cold       ☐ Respirator         ☐ Utilities, Subsurface, and Overhead       ☐ Exclusion Zone (Cones, Signs, Etc.)         ☐ Other, Describe:       ☐ Other, Describe:     **Decon, Emergency Signals, Rally Point, Etc.    Decon Procedures         ☐ Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ Hand Signals for Shutdown         ☐ Nearest Medical Facility       ☐ Audible Signals for Shutdown         ☐ Primary Rally Point       ☐ Secondary Rally Point         ☐ Restroom       ☐ Secondary Rally Point         ☐ Equipment Shutdown Procedures       ☐ Other Emergency Info, Describe:     **Persons Attending Safety Meeting	<u> </u>		
□ Drilling Equipment       □ Protective Footwear         □ Excavation Equipment       □ Coveralls         □ Noise       □ Hearing Protection         □ Hot/Cold       □ Respirator         □ Utilities, Subsurface, and Overhead       □ Exclusion Zone (Cones, Signs, Etc.)         □ Other, Describe:       □ Other, Describe:	•	1	
Excavation Equipment	∐ Falls —	I =	
Noise       Hearing Protection         Hot/Cold       Respirator         Utilities, Subsurface, and Overhead       Exclusion Zone (Cones, Signs, Etc.)         Other, Describe:       Other, Describe:       Hearing Protection         Respirator       Resclusion Zone (Cones, Signs, Etc.)         Other, Describe:       Other, Describe:       Hearing Protection         Resclusion Zone (Cones, Signs, Etc.)         Other, Describe:       Decon, Emergency Signals, Rally Point, Etc.         Decon Procedures       Waste Management         Hand Signals for Shutdown       Audible Signals for Shutdown         Primary Rally Point       Primary Rally Point         Restroom       Secondary Rally Point         Equipment Shutdown Procedures       Other Emergency Info, Describe:       Persons Attending Safety Meeting	☐ Drilling Equipment	☐ Protective Footwear	
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Locations of Emergency Equipment    Fire Extinguishers   Decon Procedures     Eye Wash   Waste Management     First Aid Kit   Hand Signals for Shutdown     Nearest Medical Facility   Audible Signals for Shutdown     Potable Water   Primary Rally Point     Restroom   Secondary Rally Point     Equipment Shutdown Procedures   Other Emergency Info, Describe:	Utilities, Subsurface, and Overhead	☐ Exclusion Zone (Cones, Signs, Etc.)	
☐ Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ Hand Signals for Shutdown         ☐ Nearest Medical Facility       ☐ Audible Signals for Shutdown         ☐ Potable Water       ☐ Primary Rally Point         ☐ Restroom       ☐ Secondary Rally Point         ☐ Equipment Shutdown Procedures       ☐ Other Emergency Info, Describe:         ☐ Other, Describe:       ☐ Other Emergency Info, Describe:	Other, Describe:	Other, Describe:	
☐ Fire Extinguishers       ☐ Decon Procedures         ☐ Eye Wash       ☐ Waste Management         ☐ First Aid Kit       ☐ Hand Signals for Shutdown         ☐ Nearest Medical Facility       ☐ Audible Signals for Shutdown         ☐ Potable Water       ☐ Primary Rally Point         ☐ Restroom       ☐ Secondary Rally Point         ☐ Equipment Shutdown Procedures       ☐ Other Emergency Info, Describe:         ☐ Other, Describe:       ☐ Other Emergency Info, Describe:			
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□ Eye Wash □ Waste Management   □ First Aid Kit □ Hand Signals for Shutdown   □ Nearest Medical Facility □ Audible Signals for Shutdown   □ Potable Water □ Primary Rally Point   □ Restroom □ Secondary Rally Point   □ Equipment Shutdown Procedures □ Other Emergency Info, Describe:   □ Other, Describe:    Persons Attending Safety Meeting	Fire Extinguishers	Decon Procedures	
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□ Potable Water □ Primary Rally Point   □ Restroom □ Secondary Rally Point   □ Equipment Shutdown Procedures □ Other Emergency Info, Describe:   □ Other, Describe:    Persons Attending Safety Meeting		_	
☐ Restroom ☐ Secondary Rally Point   ☐ Equipment Shutdown Procedures ☐ Other Emergency Info, Describe:   ☐ Other, Describe:    Persons Attending Safety Meeting		_	
☐ Equipment Shutdown Procedures ☐ Other Emergency Info, Describe: ☐ Other, Describe: ☐ Persons Attending Safety Meeting		1	
Other, Describe:  Persons Attending Safety Meeting			
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#### 419 Rockefeller Ave, Everett, WA 98201 to Providence Regional Medical Center - Everett

Drive 0.9 mile, 4 min



Map data ©2020 Google 1000 ft I

### 419 Rockefeller Ave

Everett, WA 98201

1	1.	Head south on Rockefeller Ave toward 5th St	
Ļ	2.	Rockefeller Ave turns right and becomes 5th S	- 322 ft <b>St</b>
4	3.	Turn left onto Wetmore Ave	- 315 ft
4	4.	Turn left onto 13th St	0.7 mi
<b>L</b>		Turn right  Destination will be on the right	— 56 ft
			— 36 ft

## Providence Regional Medical Center - Everett

1700 13th St, Everett, WA 98201

These directions are for planning purposes only. You may find that construction projects, traffic. weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

## TRC HEALTH AND SAFETY MANAGEMENT SYSTEM TRC

<b>DOCUMENT TITLE:</b> COVID-19 Guidelines for Field	
Activities	

**DOCUMENT NUMBER: CP052.1 Revision Number: 3** 

APPROVED BY: Mike Glenn Page **1** of **5** 

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#### 1. ASSESSING FIELD ACTIVITIES FOR COVID-19 RISK

Following TRC's health and safety management system, work activities should be assessed to identify possible hazards and the precautions necessary to mitigate risk to an acceptable level, including risks associated with COVID-19. TRC is following the US Occupational Safety and Health Administration's (OSHA) risk assessment guidance for COVID-19. Project-specific controls that are developed through the risk assessment process must be communicated to project employees and also listed in the project Health and Safety Plan.

#### 1.1. Risk Assessment

To determine appropriate precautions, OSHA has divided job tasks into four risk exposure levels: very high, high, medium, and lower risk. The majority of TRC's work is considered Low risk.

- Very High: Exposure risk jobs are those with high potential for exposure to known or suspected sources of COVID-19 during specific medical, postmortem, or laboratory procedures. Workers in this category include healthcare workers and healthcare or laboratory personnel collecting or handling specimens from known or suspected COVID-19 patients.
  - o **Precautions:** TRC does not engage in Very High-risk work.
- High: Exposure risk jobs are those with high potential for exposure to known or suspected sources of COVID-19. Workers in this category include healthcare delivery and support staff (e.g., doctors, nurses, and other hospital staff who must enter patients' rooms) exposed to known or suspected COVID-19 patients.
  - Precautions: TRC does not engage in High-risk work.
- Medium: Exposure risk jobs include those that require frequent and/or close contact with (i.e., within 6 feet of) people who may be infected with COVID-19, but who are not known or suspected COVID-19 patients. In areas without ongoing community transmission, workers in this risk group may have frequent contact with travelers who may return from international locations with widespread COVID-19 transmission. In areas where there is ongoing community transmission, workers in this category may have contact be with the general public (e.g., in schools, high-population-density work environments, and some high-volume retail settings).

#### Precautions

- Continue to follow the CDC's guidelines for social distancing and hand hygiene.
- Where appropriate, limit client and third-party access to the worksite or restrict access to only certain workplace areas.
- Consider strategies to minimize face-to-face contact (e.g., drive through windows, phone-based communication, telework).

#### TRC HEALTH AND SAFETY MANAGEMENT SYSTEM

**DOCUMENT TITLE:** COVID-19 Guidelines for Field Activities

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- Employees and Project Managers with medium exposure risk may need to wear some combination of gloves (i.e., nitrile), a face mask (or ½ mask tight-fitting respirator), and/or a face shield or goggles. PPE ensembles for workers in the medium exposure risk category will vary by work task, the results of the hazard assessment, and the types of exposures workers have on the job.
- Lower: Exposure risk (caution) jobs are those that do not require contact with people known
  to be, or suspected of being, infected with COVID-19 nor frequent close contact with (i.e.,
  within 6 feet of) the general public. Workers in this category have minimal occupational
  contact with the public and other coworkers.
  - Precautions While OSHA does not recommend specific controls for Low-risk work, TRC will continue to follow the CDC's primary precautions including social distancing and hand hygiene.

#### 1.2. Best Practices

TRC has identified additional best practices that can be used to further mitigate potential exposure to COVID-19. In addition, the CDC's COVID-19 guidelines which include social distancing and hand hygiene, the following options should be considered.

#### Travel

- Drive in separate vehicles
- o Consider completing task alone
- Have passenger sit in back seat
- Sanitize your hands after using the fuel pump
- Sanitize interior surfaces of rental vehicles
- Driving instead of flying

#### Project Sites

- Use disposable chemical resistant gloves (i.e., nitrile) when disinfectant wipes are not available
- Schedule work during "off hours" when less people are around
- Wait until 3 days after last person left the area, if possible
- Consider using a ½ mask tight-fitting respirator when N95 masks are not available (if deemed appropriate)
- Contact clients via telephone or video conference instead of face-to-face meetings

#### TRC HEALTH AND SAFETY MANAGEMENT SYSTEM

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#### Construction sites

- Avoid "tailgate meetings" or "water cooler meetings" without following social distancing protocols
- Avoid sharing pens/pencils
- Safety Meetings should be held in groups of 10 or less and should observe 6' personal distance
- o Stager lunch times to minimize social gatherings; consider eating in separate areas
- o All lunch waste, bottles and cans should be disposed of immediately after use
- Never share PPE (hard hats, high visibility vets, personal floatation device, safety glasses, etc.
- o Avoid community coffee pots in field offices
- Provide disposable paper cups at drinking stations
- Wear gloves when operating equipment and if possible, limit one operator to a piece of equipment. Sanitize controls after use
- No sharing hand tools
- Set up hand cleaning or sanitizing stations at various locations on the site, ideally near port-o-lets
- o Put your clothing directly in the washing machine at the end of shift
- o Limit number of workers in confined spaces as much as possible
- Use telephones or Skype meetings to avoid face-to-face meetings when possible

#### 2. SYMPTOMS AND PRECAUTIONS FOR COVID-19

#### 2.1. Background

The 2019 novel coronavirus, or COVID-19, is a new respiratory virus first identified in Wuhan, Hubei Province, China. It's called a "novel" — or new — coronavirus, because it is a coronavirus that has not been previously identified.

Both the COVID-19 and influenza (flu) are respiratory illnesses, which have similar symptoms. Both are contagious and both can be mild or severe, even fatal in rare cases. The key difference between the novel coronavirus and influenza is we know what to expect from the flu.

#### TRC HEALTH AND SAFETY MANAGEMENT SYSTEM

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#### 2.2. Symptoms of COVID-19

Initial symptoms of COVID-19 usually include fever greater than 100.4°F (38.0°C), cough, and shortness of breath. However, not all affected individuals will exhibit all symptoms. If you experience these symptoms or have been in recent close contact with someone with these symptoms, notify your doctor and stay home.

#### 2.3. Steps to Follow If You Develop Symptoms

Symptoms and Warning Signs	Take the following steps
These symptoms may appear 2-14 days after exposure.  • Fever, greater than 100.4°F (38.0°C) • Cough • Shortness of breath	<ol> <li>Notify your field and direct supervisor that you feel ill.</li> <li>Supervisor shall notify Office Practice Leader/Practice Leader, Mike Glenn (949-697-7418), and your HR Business Partner immediately.</li> <li>Immediately isolate yourself and return to your place of lodging (return home if nearby).</li> <li>Contact your personal healthcare provider asap (consider using the Cigna app) for evaluation and follow their instructions.</li> <li>Update your field and direct supervisor of your health and work status (e.g., when do you expect to return to work).</li> <li>If you're diagnosed with COVID-19 notify Mike Glenn (949-697-7418) and your HR Business Partner immediately. This communication will be treated as confidential.</li> </ol>
If you develop any of the following emergency warning signs:  Difficulty breathing or shortness of breath, Persistent pain or pressure in the chest, New confusion or inability to arouse, Bluish lips or face  This list is not all inclusive so please consult with your medical provider for further guidance.	<ol> <li>Get medical attention immediately.</li> <li>If you're diagnosed with COVID-19, notify Mike Glenn (949-697-7418) and your HR Business Partner immediately. This communication will be treated as confidential.</li> </ol>

Source: CDC COVID-19 Symptoms <a href="https://www.cdc.gov/coronavirus/2019-ncov/about/symptoms.html">https://www.cdc.gov/coronavirus/2019-ncov/about/symptoms.html</a>

## **♦** TRC

#### TRC HEALTH AND SAFETY MANAGEMENT SYSTEM

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#### 2.4. Transmission

Both COVID-19 and the flu can be spread from person to person through droplets caused by an infected person coughing, sneezing or talking. Flu can be spread by an infected person for several days before their symptoms appear, and COVID-19 is believed to be spread in the same manner, but we don't yet know for sure.

#### 2.5. Precautions

- Practice Social Distancing
  - Practice social distancing by avoiding large gatherings and maintaining distance (approximately 6 feet) from others when possible.
  - Do not share eating or drinking utensils, avoid close conversation, and other direct physical contact like hand shaking. "Close contact" does not include activities such as walking by a person or briefly sitting across an office.
- Hand Hygiene
  - According to the CDC, washing hands with soap and water is the best way to get rid of germs in most situations. If soap and water are not readily available, you can use an alcohol-based hand sanitizer that contains at least 60% alcohol. You can tell if the sanitizer contains at least 60% alcohol by looking at the product label.
- Practice good respiratory hygiene covering mouth and nose when coughing or sneezing, using tissues and disposing of them correctly.
- Obtain immunizations recommended by healthcare providers to help avoid disease.
- Early self-isolation of those feeling unwell, feverish and having other symptoms of flu.
- Avoiding touching your eyes, nose or mouth.
- Frequently disinfect all areas that are likely to have frequent hand contact (like doorknobs, faucets, handrails).

#### 2.6. Client Meetings/Interactions

Be aware of any restrictions or requirements that clients have in place regarding visiting client facilities or attending meetings. Verify with supervisor/project managers prior to visiting client facilities or meetings in person.

#### TRC HEALTH AND SAFETY MANAGEMENT SYSTEM

**DOCUMENT TITLE:** COVID-19 Questionnaire for Onsite

Workers

**DOCUMENT NUMBER:** CP052.2 | Revision Number: 2

**APPROVED BY**: Mike Glenn Page **1** of **1** 

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The safety of our employees and their families, subcontractors, clients, and visitors is TRC's highest priority. As the COVID-19 pandemic continues to evolve and spread, TRC will continue to monitor the CDC, WHO, and local agencies in order to provide up-to-date information to protect all of those in our community.

To prevent the spread of COVID-19 and reduce the potential risk of exposure to our employees, subcontractors, and visitors, we request all personnel involved with on-site project-related work complete this assessment questionnaire. This questionnaire will be completed upon arrival to the jobsite and prior to conducting any job-related tasks. Your participation is important to help us take precautionary measures to protect you and everyone on our team.

Date:				
Name:				<u></u>
Compa	ny/Organization:			<u></u>
Email A	ddress:			
Phone	Number:			<u></u>
Project	Name:			<u>—</u>
1.	tiredness, or troul	ole breathing within the p		
	□ Y	es		l No
2.	means living in the for a person who tested positive for secretions (for exa	e same household as a pe has tested positive for CC r COVID-19 for 15 minute	idual diagnosed with COV irson who has tested positive 19, being within 6 few sor more, or coming in dispense coughed on) from a symptomatic.	tive for COVID-19, caring et of a person who has rect contact with
	Y	es		l No
3.	•	ne inside your residence I by a doctor or a local pu	been exposed to someon blic health official?	e else who is currently
	□ Y			l No

Be aware that your client may have additional requirements as well. Please consult the <a href="COVID-19">COVID-19</a>
<a href="COVID-19">Client Documents</a> on TRCNet to review your client's guidance. Only personnel who answer "No" to all questions listed above will be granted site access. Copies of completed questionnaires are to be maintained onsite with the HASP and project documents. If the answer is "Yes" to question 1, please contact your Supervisor, Office Practice Leader/OPL, Mike Glenn, and your HR Business Partner.

Attachment E Laboratory Analytical Reports

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 11, 2021

Nate Hinsperger, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Bros 424198, F&BI 102006

Dear Mr Hinsperger:

Included are the results from the testing of material submitted on February 1, 2021 from the Haack Bros 424198, F&BI 102006 project. There are 280 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC0211R.DOC

#### **ENVIRONMENTAL CHEMISTS**

### CASE NARRATIVE

This case narrative encompasses samples received on February 1, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Bros 424198, F&BI 102006 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID 102006-01 102006-02 102006-03 102006-04 102006-05 102006-06 102006-07 102006-08 102006-10 102006-10 102006-11 102006-12 102006-13 102006-14 102006-15 102006-16 102006-17 102006-18 102006-19 102006-20 102006-21 102006-21 102006-23 102006-24 102006-25 102006-26 102006-27 102006-28 102006-29 102006-30 102006-31 102006-31	TRC Environmental B-1:0.5 B-1:2 B-1:10 B-2:0.5 B-2:2 B-2:10 DUP-1 B-3:0.5 B-3:2 B-3:10 B-4:0.3 B-4:0.5 B-4:2.5 B-4:10 B-5:0.3 B-5:1 B-5:3 B-5:10 DUP-2 B-6:0.5 B-6:2 B-6:4 B-6:6 B-7:0.5 B-7:2 B-7:4 B-7:6 B-7:10 DUP-3 B-8:0.5 B-8:2
102006-30	DUP-3
102006-31	B-8:0.5
102006-32	B-8:2
102006-33	B-8:3
102006-34	B-8:5
102006-35	B-8:10
102000-00	D-0.10

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-36	B-9:0.3
102006-37	B-9:1
102006-38	B-9:3
102006-39	B-9:10
102006-40	DUP-4
102006-41	B-10:0.3
102006-42	B-10:1
102006-43	B-10:3
102006-44	B-10:10
102006-45	B-11:0.5
102006-46	B-11:1
102006-47	B-11:3
102006-48	B-11:10
102006-49	DUP-5
102006-50	B-12:0.5
102006-51	B-12:1
102006-52	B-12:3
102006-53	B-12:10
102006-54	B-13:0.5
102006-55	B-13:1.5
102006-56	B-13:2
102006-57	B-13:4
102006-58	B-13:10
102006-59	DUP-6
102006-60	B-14:0.5
102006-61	B-14:2
102006-62	B-14:3
102006-63	B-14:5
102006-64	B-14:10
102006-65	B-15:0.5
102006-66	B-15:2
102006-67	B-15:3
102006-68	B-15:5
102006-69	B-15:10
102006-70	B-16:0.5

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-71	B-16:2
102006-72	B-16:2.5
102006-73	B-16:5
102006-74	B-16:10
102006-75	DUP-7
102006-76	B-17:0.5
102006-77	B-17:2
102006-78	B-17:3
102006-79	B-17:5
102006-80	B-17:10
102006-81	B-18:0.5
102006-82	B-18:1.8
102006-83	B-18:2
102006-84	B-18:4.2
102006-85	B-18:10
102006-86	B-19:0.5
102006-87	B-19:1
102006-88	B-19:3
102006-89	B-19:10
102006-90	DUP-8
102006-91	B-20:05
102006-92	B-20:1
102006-93	B-20:3
102006-94	B-20:10
102006-95	B-21:0.5
102006-96	B-21:2
102006-97	B-21:3
102006-98	B-21:5
102006-99	B-21:10
102006-100	B-22:0.5
102006-101	B-22:1.5
102006-102	B-22:2.5
102006-103	B-22:4
102006-104	B-22:10
102006-105	B-23:0.5

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-106	B-23:1.5
102006-107	B-23:2
102006-108	B-23:4
102006-109	B-23:10
102006-110	DUP-9
102006-111	B-24:0.5
102006-112	B-24:2
102006-113	B-24:3
102006-114	B-24:5
102006-115	B-24:10
102006-116	DUP-10
102006-117	B-25:0.5
102006-118	B-25:2
102006-119	B-25:2.5
102006-120	B-25:5
102006-121	B-25:10
102006-122	B-26:0.5
102006-123	B-26:2
102006-124	B-26:2.5
102006-125	B-26:5
102006-126	B-26:10
102006-127	B-27:0.5
102006-128	B-27:2
102006-129	B-27:4
102006-130	B-27:6
102006-131	B-27:10
102006-132	DUP-11
102006-133	B-28:0.5
102006-134	B-28:1.5
102006-135	B-28:2
102006-136	B-28:4
102006-137	B-28:10
102006-138	B-29:0.5
102006-139	B-29:1
102006-140	B-29:3

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-141	B-29:10
102006-142	B-30:0.5
102006-143	B-30:2
102006-144	B-30:3
102006-145	B-30:5
102006-146	B-30:10
102006-147	B-31:0.5
102006-148	B-31:1
102006-149	B-31:3
102006-150	B-31:10
102006-151	B-32:0.5
102006-152	B-32:2
102006-153	B-32:3
102006-154	B-32:5
102006-155	B-32:10
102006-156	B-33:0.5
102006-157	B-33:1
102006-158	B-33:3
102006-159	B-33:10
102006-160	DUP-13
102006-161	B-34:0.5
102006-162	B-34:1.5
102006-163	B-34:2.5
102006-164	B-34:4
102006-165	B-34:10
102006-166	DUP-14
102006-167	B-35:0.5
102006-168	B-35:2
102006-169	B-35:3
102006-170	B-35:5
102006-171	B-35:10
102006-172	B-36:0.5
102006-173	B-36:2
102006-174	B-36:4
102006-175	B-36:6

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-176	B-36:10
102006-177	B-37:0.5
102006-178	B-37:2.5
102006-179	B-37:4
102006-180	B-37:6
102006-181	B-37:10
102006-182	DUP-15
102006-183	B-38:0.5
102006-184	B-38:1
102006-185	B-38:3
102006-186	B-38:10
102006-187	B-39:0.5
102006-188	B-39:2
102006-189	B-39:5
102006-190	B-39:7
102006-191	B-39:10
102006-192	DUP-16
102006-193	B-40:0.5
102006-194	B-40:2
102006-195	B-40:3.5
102006-196	B-40:5.5
102006-197	B-40:10
102006-198	B-41:0.5
102006-199	B-41:1.5
102006-200	B-41:2.5
102006-201	B-41:5
102006-202	B-41:10
102006-203	DUP-17
102006-204	B-42:0.5
102006-205	B-42:2
102006-206	B-42:4.5
102006-207	B-42:6
102006-208	B-42:10
102006-209	B-43:0.5
102006-210	B-43:2

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-211	B-43:4
102006-212	B-43:6
102006-213	B-43:10
102006-214	B-44:0.5
102006-215	B-44:2
102006-216	B-44:4.5
102006-217	B-44:6
102006-218	B-44:10
102006-219	B-45:1
102006-220	B-45:3
102006-221	B-45:4
102006-222	B-45:6
102006-223	B-45:10
102006-224	DUP-18
102006-225	B-46:0.5
102006-226	B-46:2
102006-227	B-46:3
102006-228	B-46:5
102006-229	B-46:10
102006-230	B-47:0.5
102006-231	B-47:2
102006-232	B-47:2.5
102006-233	B-47:4.5
102006-234	B-47:10
102006-235	DUP-19
102006-236	B-48:1
102006-237	B-48:3
102006-238	B-48:5
102006-239	B-48:7
102006-240	B-48:10
102006-241	B-49:1
102006-242	B-49:3
102006-243	B-49:5
102006-244	B-49:7
102006-245	B-49:10

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-246	DUP-20
102006-247	B-50:0.5
102006-248	B-50:2.5
102006-249	B-50:3.5
102006-250	B-50:5
102006-251	B-50:10
102006-252	B-51:0.5
102006-253	B-51:2
102006-254	B-51:5
102006-255	B-51:7
102006-256	B-51:10
102006-257	B-52:0.5
102006-258	B-52:2
102006-259	B-52:4
102006-260	B-52:6
102006-261	B-52:10
102006-262	DUP-21
102006-263	B-53:0.5
102006-264	B-53:2.5
102006-265	B-53:3.5
102006-266	B-53:5.5
102006-267	B-53:10
102006-268	B-54:0.5
102006-269	B-54:2.5
102006-270	B-54:4
102006-271	B-54:6
102006-272	B-54:10
102006-273	DUP-22
102006-274	B-55:0.5
102006-275	B-55:2
102006-276	B-55:3
102006-277	B-55:5
102006-278	B-55:10
102006-279	DUP-23
102006-280	B-56:0.5

#### **ENVIRONMENTAL CHEMISTS**

### CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	TRC Environmental
102006-281	B-56:2
102006-282	B-56:3
102006-283	B-56:5
102006-284	B-56:10
102006-285	B-57:0.5
102006-286	B-57:1.8
102006-287	B-57:2
102006-288	B-57:3.5
102006-289	B-57:10
102006-290	DUP-24
102006-291	B-58:0.5
102006-292	B-58:1
102006-293	B-58:3
102006-294	B-58:10
102006-295	B-59:0.5
102006-296	B-59:1.5
102006-297	B-59:2.5
102006-298	B-59:4.5
102006-299	B-59:10
102006-300	B-60:0.5
102006-301	B-60:2
102006-302	B-60:3
102006-303	B-60:5
102006-304	B-60:10
102006-305	Dup-12

The 6020B matrix spike and matrix spike duplicate exceeded the relative percent difference for cadmium and lead. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

All other quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-1:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 27.0 Cadmium <1 Lead 66.1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-1:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-02

 Date Analyzed:
 02/03/21
 Data File:
 102006-02.089

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.1 Cadmium <1 Lead 11.2

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-2:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-04

 Date Analyzed:
 02/03/21
 Data File:
 102006-04.090

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 16.5 Cadmium <1 Lead 39.6

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-2:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.4
Cadmium <1
Lead 8.89

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-07

 Date Analyzed:
 02/03/21
 Data File:
 102006-07.092

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.6
Cadmium <1
Lead 11.0

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-3:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-08

 Date Analyzed:
 02/03/21
 Data File:
 102006-08.093

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 15.4 Cadmium <1 Lead 26.5

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-3:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-09

 Date Analyzed:
 02/03/21
 Data File:
 102006-09.094

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.3 Cadmium <1 Lead 10.3

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-4:0.3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.82

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-4:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-12

 Date Analyzed:
 02/03/21
 Data File:
 102006-12.096

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.13 Cadmium <1 Lead 10.2

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B-4:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-13

 Date Analyzed:
 02/03/21
 Data File:
 102006-13.097

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

9.48

Arsenic 12.1 Cadmium <1

Analyte:

Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-5:0.3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-15

 Date Analyzed:
 02/03/21
 Data File:
 102006-15.098

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.03 Cadmium <1 Lead 6.59

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-5:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic 10.2 Cadmium <1 Lead 59.6

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-5:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-17

 Date Analyzed:
 02/03/21
 Data File:
 102006-17.102

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.1 Cadmium <1 Lead 11.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-19

 Date Analyzed:
 02/03/21
 Data File:
 102006-19.103

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.5 Cadmium <1 Lead 13.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-6:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-20

 Date Analyzed:
 02/03/21
 Data File:
 102006-20.104

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-6:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-21

 Date Analyzed:
 02/03/21
 Data File:
 102006-21.105

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-6:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-22

 Date Analyzed:
 02/03/21
 Data File:
 102006-22.106

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 18.2 Cadmium <1 Lead 54.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-6:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-23

 Date Analyzed:
 02/03/21
 Data File:
 102006-23.107

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.43
Cadmium <1
Lead 8.57

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-7:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-25

 Date Analyzed:
 02/03/21
 Data File:
 102006-25.108

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.80 Cadmium <1 Lead 6.18

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-7:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-26

 Date Analyzed:
 02/03/21
 Data File:
 102006-26.109

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-7:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-27

 Date Analyzed:
 02/03/21
 Data File:
 102006-27.148

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 19.0 Cadmium <1 Lead 57.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-7:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-28

 Date Analyzed:
 02/03/21
 Data File:
 102006-28.151

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.71 Cadmium <1 Lead 9.87

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-30

 Date Analyzed:
 02/03/21
 Data File:
 102006-30.158

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-8:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-31

 Date Analyzed:
 02/03/21
 Data File:
 102006-31.159

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-8:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-32

 Date Analyzed:
 02/03/21
 Data File:
 102006-32.160

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-8:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-33

 Date Analyzed:
 02/03/21
 Data File:
 102006-33.161

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.97 Cadmium <1 Lead 24.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-8:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-34

 Date Analyzed:
 02/03/21
 Data File:
 102006-34.162

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.4 Cadmium <1 Lead 10.7

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-9:0.3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-36

 Date Analyzed:
 02/03/21
 Data File:
 102006-36.163

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-9:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-37

 Date Analyzed:
 02/03/21
 Data File:
 102006-37.168

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 15.9 Cadmium <1 Lead 156

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-9:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-38

 Date Analyzed:
 02/03/21
 Data File:
 102006-38.169

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.6 Cadmium <1 Lead 10.1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-40

 Date Analyzed:
 02/03/21
 Data File:
 102006-40.170

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.04 Cadmium <1 Lead 14.8

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-10:0.3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-41

 Date Analyzed:
 02/03/21
 Data File:
 102006-41.171

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-10:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-42

 Date Analyzed:
 02/03/21
 Data File:
 102006-42.172

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.71 Cadmium <1 Lead 17.3

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-10:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-43

 Date Analyzed:
 02/03/21
 Data File:
 102006-43.173

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.3 Cadmium <1 Lead 9.86

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-11:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-45

 Date Analyzed:
 02/03/21
 Data File:
 102006-45.174

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-11:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-46

 Date Analyzed:
 02/03/21
 Data File:
 102006-46.175

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-11:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-47

 Date Analyzed:
 02/03/21
 Data File:
 102006-47.178

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.82 Cadmium <1 Lead 331

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-49

 Date Analyzed:
 02/03/21
 Data File:
 102006-49.179

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.74
Cadmium <1
Lead 188

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-12:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/02/21
 Lab ID:
 102006-50

 Date Analyzed:
 02/03/21
 Data File:
 102006-50.180

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-12:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.31 Cadmium <1 Lead 22.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-12:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-52

 Date Analyzed:
 02/03/21
 Data File:
 102006-52.182

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.29 Cadmium <1 Lead 176

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-13:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-54

 Date Analyzed:
 02/03/21
 Data File:
 102006-54.185

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-13:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-55

 Date Analyzed:
 02/03/21
 Data File:
 102006-55.186

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-13:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-13:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.1 Cadmium <1 Lead 9.09

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-14:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-60

 Date Analyzed:
 02/04/21
 Data File:
 102006-60.192

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.04

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-14:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-61

 Date Analyzed:
 02/04/21
 Data File:
 102006-61.193

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.74

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-14:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-62

 Date Analyzed:
 02/04/21
 Data File:
 102006-62.194

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 20.6 Cadmium <1 Lead 54.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-14:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-63

 Date Analyzed:
 02/04/21
 Data File:
 102006-63.195

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.4 Cadmium <1 Lead 11.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-15:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-65

 Date Analyzed:
 02/04/21
 Data File:
 102006-65.196

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.80

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-15:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-66

 Date Analyzed:
 02/04/21
 Data File:
 102006-66.197

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.78

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-15:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-67

 Date Analyzed:
 02/04/21
 Data File:
 102006-67.198

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 Arsenic
 28.2

 Cadmium
 1.09

 Lead
 947

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-15:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-68

 Date Analyzed:
 02/04/21
 Data File:
 102006-68.199

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.6 Cadmium <1 Lead 13.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-16:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-70

 Date Analyzed:
 02/04/21
 Data File:
 102006-70.202

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.02 Cadmium <1 Lead 4.72

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-16:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 8.51

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-16:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-72

 Date Analyzed:
 02/04/21
 Data File:
 102006-72.204

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 16.6 Cadmium <1 Lead 55.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-16:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-73

 Date Analyzed:
 02/04/21
 Data File:
 102006-73.205

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 8.02

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-7 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-75

 Date Analyzed:
 02/04/21
 Data File:
 102006-75.206

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.99
Cadmium <1
Lead 13.5

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-17:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-76

 Date Analyzed:
 02/04/21
 Data File:
 102006-76.207

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.03 Cadmium <1 Lead 5.73

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-17:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-77

 Date Analyzed:
 02/04/21
 Data File:
 102006-77.208

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.54

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-17:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-78

 Date Analyzed:
 02/04/21
 Data File:
 102006-78.211

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 17.3 Cadmium <1 Lead 46.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-17:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-79

 Date Analyzed:
 02/04/21
 Data File:
 102006-79.215

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.0 Cadmium <1 Lead 8.66

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-18:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-81

 Date Analyzed:
 02/04/21
 Data File:
 102006-81.216

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.00 Cadmium <1 Lead 4.92

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-18:1.8 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-82

 Date Analyzed:
 02/04/21
 Data File:
 102006-82.217

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.76

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-18:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-83

 Date Analyzed:
 02/04/21
 Data File:
 102006-83.218

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 16.5 Cadmium 1.28 Lead 109

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-18:4.2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-84

 Date Analyzed:
 02/04/21
 Data File:
 102006-84.219

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.15

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-19:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-86

 Date Analyzed:
 02/04/21
 Data File:
 102006-86.220

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.31 Cadmium <1 Lead 8.77

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-19:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-87

 Date Analyzed:
 02/04/21
 Data File:
 102006-87.221

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 12.1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-19:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-88

 Date Analyzed:
 02/04/21
 Data File:
 102006-88.222

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 33.5 Cadmium 1.32 Lead 153

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-8 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-90

 Date Analyzed:
 02/04/21
 Data File:
 102006-90.223

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.25

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-20:05 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-91

 Date Analyzed:
 02/04/21
 Data File:
 102006-91.224

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.51

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-20:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-92

 Date Analyzed:
 02/04/21
 Data File:
 102006-92.228

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.48
Cadmium <1
Lead 10.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-20:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-93

 Date Analyzed:
 02/04/21
 Data File:
 102006-93.229

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.1 Cadmium <1 Lead 12.1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-21:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-95

 Date Analyzed:
 02/04/21
 Data File:
 102006-95.230

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.90

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-21:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-96

 Date Analyzed:
 02/04/21
 Data File:
 102006-96.231

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.68

Analyte:

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-21:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 29.8 Cadmium <1 Lead 439

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-21:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-98

 Date Analyzed:
 02/04/21
 Data File:
 102006-98.233

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.54 Cadmium <1 Lead 8.44

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-22:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/03/21
 Lab ID:
 102006-100

 Date Analyzed:
 02/04/21
 Data File:
 102006-100.234

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.00

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-22:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/03/21 102006-101 Date Analyzed: 02/04/21 Data File: 102006-101.235

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 6.18 Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-22:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-102

 Date Analyzed:
 02/04/21
 Data File:
 102006-102.103

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 10.8

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-22:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-103

 Date Analyzed:
 02/04/21
 Data File:
 102006-103.149

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 16.5 Cadmium <1 Lead 101

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-23:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-105

 Date Analyzed:
 02/04/21
 Data File:
 102006-105.150

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.11 Cadmium <1 Lead 5.90

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-23:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-106

 Date Analyzed:
 02/04/21
 Data File:
 102006-106.151

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-23:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-107

 Date Analyzed:
 02/04/21
 Data File:
 102006-107.152

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-23:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-108

 Date Analyzed:
 02/04/21
 Data File:
 102006-108.153

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 17.1 Cadmium <1 Lead 85.2

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-9 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-24:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-111

 Date Analyzed:
 02/04/21
 Data File:
 102006-111.159

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.87 Cadmium <1 Lead 5.96

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-24:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-112

 Date Analyzed:
 02/04/21
 Data File:
 102006-112.162

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.36 Cadmium <1 Lead 4.69

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-24:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-113

 Date Analyzed:
 02/04/21
 Data File:
 102006-113.165

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.80 Cadmium <1 Lead 9.89

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-24:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-114

 Date Analyzed:
 02/04/21
 Data File:
 102006-114.171

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 26.3 Cadmium <1 Lead 43.6

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-10 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-116

 Date Analyzed:
 02/04/21
 Data File:
 102006-116.172

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.42 Cadmium <1 Lead 6.80

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-25:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-117

 Date Analyzed:
 02/04/21
 Data File:
 102006-117.173

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-25:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-118

 Date Analyzed:
 02/04/21
 Data File:
 102006-118.174

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-25:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-119

 Date Analyzed:
 02/04/21
 Data File:
 102006-119.175

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 20.5 Cadmium <1 Lead 37.1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-25:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-120

 Date Analyzed:
 02/04/21
 Data File:
 102006-120.176

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-26:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-122

 Date Analyzed:
 02/04/21
 Data File:
 102006-122.177

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.71 Cadmium <1 Lead 7.57

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-26:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-123

 Date Analyzed:
 02/04/21
 Data File:
 102006-123.186

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.22 Cadmium <1 Lead 5.21

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-26:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-124

 Date Analyzed:
 02/04/21
 Data File:
 102006-124.187

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.36 Cadmium <1 Lead 18.2

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-26:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-125

 Date Analyzed:
 02/04/21
 Data File:
 102006-125.188

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.20 Cadmium <1 Lead 6.34

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-27:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-127

 Date Analyzed:
 02/04/21
 Data File:
 102006-127.189

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-27:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-128

 Date Analyzed:
 02/06/21
 Data File:
 102006-128.210

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-27:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-129

 Date Analyzed:
 02/06/21
 Data File:
 102006-129.211

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 $\begin{array}{ll} \text{Arsenic} & 14.9 \\ \text{Cadmium} & <1 \\ \text{Lead} & 32.5 \end{array}$ 

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-27:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-130

 Date Analyzed:
 02/06/21
 Data File:
 102006-130.212

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.32 Cadmium <1 Lead 6.49

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-11 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-132

 Date Analyzed:
 02/06/21
 Data File:
 102006-132.213

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-28:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-133

 Date Analyzed:
 02/04/21
 Data File:
 102006-133.199

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-28:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-134

 Date Analyzed:
 02/06/21
 Data File:
 102006-134.216

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

mg/kg (ppm/ bry weight Operator.

Analyte: Concentration mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-28:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-135

 Date Analyzed:
 02/04/21
 Data File:
 102006-135.201

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-28:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-136

 Date Analyzed:
 02/06/21
 Data File:
 102006-136.217

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.4 Cadmium <1 Lead 15.2

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-29:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-138

 Date Analyzed:
 02/06/21
 Data File:
 102006-138.218

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-29:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-139

 Date Analyzed:
 02/06/21
 Data File:
 102006-139.219

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.36 Cadmium <1 Lead 16.3

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-29:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-140

 Date Analyzed:
 02/06/21
 Data File:
 102006-140.220

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 14.0 Cadmium <1 Lead 38.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-30:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-142

 Date Analyzed:
 02/04/21
 Data File:
 102006-142.208

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-30:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-143

 Date Analyzed:
 02/06/21
 Data File:
 102006-143.221

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 Arsenic
 7.12

 Cadmium
 <1</td>

 Lead
 7.04

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-30:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-144

 Date Analyzed:
 02/06/21
 Data File:
 102006-144.222

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 7.65

Analyte:

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-30:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-145

 Date Analyzed:
 02/06/21
 Data File:
 102006-145.223

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic 10.1 Cadmium <1 Lead 10.2

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-31:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-147

 Date Analyzed:
 02/04/21
 Data File:
 102006-147.212

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-31:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-148

 Date Analyzed:
 02/06/21
 Data File:
 102006-148.224

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.9
Cadmium <1
Lead 24.6

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-31:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-149

 Date Analyzed:
 02/06/21
 Data File:
 102006-149.225

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.06

Cadmium <1
Lead 6.84

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-32:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-151

 Date Analyzed:
 02/06/21
 Data File:
 102006-151.228

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.93

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-32:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-152

 Date Analyzed:
 02/06/21
 Data File:
 102006-152.229

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.36 Cadmium <1 Lead 4.81

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-32:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-153

 Date Analyzed:
 02/04/21
 Data File:
 102006-153.221

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.97

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-32:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.93

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-33:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-156

 Date Analyzed:
 02/05/21
 Data File:
 102006-156.223

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.95

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-33:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-157

 Date Analyzed:
 02/05/21
 Data File:
 102006-157.224

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.35

Analyte:

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-33:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-158

 Date Analyzed:
 02/05/21
 Data File:
 102006-158.225

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.79

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-13 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/212
 Lab ID:
 102006-160

 Date Analyzed:
 02/05/21
 Data File:
 102006-160.226

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.03

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-34:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-161

 Date Analyzed:
 02/06/21
 Data File:
 102006-161.230

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.13 Cadmium <1 Lead 9.63

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-34:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-162

 Date Analyzed:
 02/06/21
 Data File:
 102006-162.231

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.54

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-34:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-163

 Date Analyzed:
 02/06/21
 Data File:
 102006-163.232

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.2 Cadmium <1 Lead 8.87

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-34:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-164

 Date Analyzed:
 02/06/21
 Data File:
 102006-164.233

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.65
Cadmium <1
Lead 5.50

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-14 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-166

 Date Analyzed:
 02/06/21
 Data File:
 102006-166.234

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.1 Cadmium <1 Lead 8.76

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-35:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-167

 Date Analyzed:
 02/06/21
 Data File:
 102006-167.235

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.57

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-35:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-168

 Date Analyzed:
 02/06/21
 Data File:
 102006-168.236

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.44

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-35:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-169

 Date Analyzed:
 02/06/21
 Data File:
 102006-169.237

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 9.02

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-35:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-170

 Date Analyzed:
 02/06/21
 Data File:
 102006-170.240

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.69 Cadmium <1 Lead 7.45

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-36:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-172

 Date Analyzed:
 02/06/21
 Data File:
 102006-172.241

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.34 Cadmium <1 Lead 4.93

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-36:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-173

 Date Analyzed:
 02/06/21
 Data File:
 102006-173.242

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

Arsenic <5 Cadmium <1 Lead 5.94

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-36:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-174

 Date Analyzed:
 02/06/21
 Data File:
 102006-174.243

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.93 Cadmium <1 Lead 27.1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-36:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-175

 Date Analyzed:
 02/06/21
 Data File:
 102006-175.244

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.92 Cadmium <1 Lead 7.04

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-37:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-177

 Date Analyzed:
 02/06/21
 Data File:
 102006-177.245

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.41 Cadmium <1 Lead 6.12

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-37:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-178

 Date Analyzed:
 02/06/21
 Data File:
 102006-178.246

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.34
Cadmium <1
Lead 6.65

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-37:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/04/21 102006-179 Date Analyzed: 02/05/21 Data File: 102006-179.248

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

ConcentrationAnalyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 3.23

Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-37:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-180

 Date Analyzed:
 02/06/21
 Data File:
 102006-180.247

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Analyte: mg/kg (ppm)

Arsenic 14.0

Arsenic 14.0 Cadmium <1 Lead 9.46

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-15 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-182

 Date Analyzed:
 02/06/21
 Data File:
 102006-182.248

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.4 Cadmium <1 Lead 10.3

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-38:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-183

 Date Analyzed:
 02/06/21
 Data File:
 102006-183.249

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.19

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-38:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-184

 Date Analyzed:
 02/05/21
 Data File:
 102006-184,254

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.86

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-38:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/04/21 102006-185 Date Analyzed: 02/05/21 Data File: 102006-185.255

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 2.28 Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-39:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-187

 Date Analyzed:
 02/06/21
 Data File:
 102006-187.252

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.91

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-39:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-188

 Date Analyzed:
 02/06/21
 Data File:
 102006-188.253

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <5

Cadmium <1
Lead 4.16

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-39:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-189

 Date Analyzed:
 02/06/21
 Data File:
 102006-189.254

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.41 Cadmium <1 Lead 18.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-39:7 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-190

 Date Analyzed:
 02/06/21
 Data File:
 102006-190.255

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.11
Cadmium <1
Lead 5.98

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-16 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-192

 Date Analyzed:
 02/06/21
 Data File:
 102006-192.256

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.16

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-40:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-193

 Date Analyzed:
 02/06/21
 Data File:
 102006-193.257

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.5 Cadmium <1 Lead 14.3

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-40:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-194

 Date Analyzed:
 02/06/21
 Data File:
 102006-194.258

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.62 Cadmium <1 Lead 8.40

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-40:3.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-195

 Date Analyzed:
 02/06/21
 Data File:
 102006-195.259

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.53 Cadmium <1 Lead 9.04

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-40:5.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-196

 Date Analyzed:
 02/06/21
 Data File:
 102006-196.260

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 $\begin{array}{ll} \text{Arsenic} & 12.3 \\ \text{Cadmium} & <1 \\ \text{Lead} & 10.7 \end{array}$ 

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-41:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-198

 Date Analyzed:
 02/05/21
 Data File:
 102006-198.273

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.16

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-41:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-199

 Date Analyzed:
 02/06/21
 Data File:
 102006-199.261

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.01 Cadmium <1 Lead 8.98

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-41:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-200

 Date Analyzed:
 02/06/21
 Data File:
 102006-200.264

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

 Arsenic
 13.0

 Cadmium
 2.04

 Lead
 26.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-41:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-201

 Date Analyzed:
 02/06/21
 Data File:
 102006-201.265

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 8.05

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-17 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-203

 Date Analyzed:
 02/05/21
 Data File:
 102006-203.281

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.65

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-42:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-204

 Date Analyzed:
 02/05/21
 Data File:
 102006-204.282

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.81

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-42:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-205

 Date Analyzed:
 02/06/21
 Data File:
 102006-205.266

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.44

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-42:4.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-206

 Date Analyzed:
 02/06/21
 Data File:
 102006-206.267

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.9 Cadmium <1 Lead 15.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-42:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-207

 Date Analyzed:
 02/06/21
 Data File:
 102006-207.268

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.13
Cadmium <1
Lead 6.84

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-43:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-209

 Date Analyzed:
 02/06/21
 Data File:
 102006-209.269

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.43

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-43:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-210

 Date Analyzed:
 02/05/21
 Data File:
 102006-210.287

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 8.38

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-43:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-211

 Date Analyzed:
 02/06/21
 Data File:
 102006-211.270

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic 11.6

Cadmium <1 Lead 27.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-43:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-212

 Date Analyzed:
 02/06/21
 Data File:
 102006-212.271

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.53 Cadmium <1 Lead 7.48

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-44:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-214

 Date Analyzed:
 02/06/21
 Data File:
 102006-214.272

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 13.8
Cadmium <1
Lead 9.37

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-44:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-215

 Date Analyzed:
 02/06/21
 Data File:
 102006-215.273

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.34
Cadmium <1
Lead 9.46

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-44:4.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-216

 Date Analyzed:
 02/05/21
 Data File:
 102006-216.297

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.46

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-44:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-217

 Date Analyzed:
 02/06/21
 Data File:
 102006-217.276

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.97 Cadmium <1 Lead 7.40

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-45:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-219

 Date Analyzed:
 02/06/21
 Data File:
 102006-219.277

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 $\begin{array}{ll} \text{Arsenic} & 5.02 \\ \text{Cadmium} & <1 \\ \text{Lead} & 5.52 \end{array}$ 

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-45:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-220

 Date Analyzed:
 02/06/21
 Data File:
 102006-220.278

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.09
Cadmium <1
Lead 6.03

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-45:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-221

 Date Analyzed:
 02/06/21
 Data File:
 102006-221.279

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 11.3

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-45:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-222

 Date Analyzed:
 02/06/21
 Data File:
 102006-222.280

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.29
Cadmium <1
Lead 5.61

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-18 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-224

 Date Analyzed:
 02/05/21
 Data File:
 102006-224.307

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.40

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-46:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-225

 Date Analyzed:
 02/08/21
 Data File:
 102006-225.125

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Consideration of transfer

Analyte: Concentration mg/kg (ppm)

Arsenic 5.16
Cadmium <1
Lead 4.80

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-46:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-226

 Date Analyzed:
 02/05/21
 Data File:
 102006-226.087

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.77

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-46:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-227

 Date Analyzed:
 02/05/21
 Data File:
 102006-227.090

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic 10.7 Cadmium <1 Lead 31.8

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-46:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-228

 Date Analyzed:
 02/05/21
 Data File:
 102006-228.091

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 7.11

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-47:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-230

 Date Analyzed:
 02/05/21
 Data File:
 102006-230.094

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.81 Cadmium <1 Lead 6.86

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-47:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-231

 Date Analyzed:
 02/05/21
 Data File:
 102006-231.095

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.27 Cadmium <1 Lead 9.04

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-47:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-232

 Date Analyzed:
 02/05/21
 Data File:
 102006-232.096

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.61

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-47:4.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-233

 Date Analyzed:
 02/05/21
 Data File:
 102006-233.101

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.81

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-19 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-235

 Date Analyzed:
 02/05/21
 Data File:
 102006-235.102

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.36 Cadmium <1 Lead 5.41

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-48:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-236

 Date Analyzed:
 02/05/21
 Data File:
 102006-236.103

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.85 Cadmium <1 Lead 7.46

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-48:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-237

 Date Analyzed:
 02/05/21
 Data File:
 102006-237.104

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.51

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-48:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-238

 Date Analyzed:
 02/05/21
 Data File:
 102006-238.105

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.16 Cadmium <1 Lead 9.77

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-48:7 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-239

 Date Analyzed:
 02/05/21
 Data File:
 102006-239.106

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$ 

Arsenic 6.19
Cadmium <1
Lead 5.19

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-49:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-241

 Date Analyzed:
 02/05/21
 Data File:
 102006-241.107

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.47 Cadmium <1 Lead 5.70

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-49:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-242

 Date Analyzed:
 02/05/21
 Data File:
 102006-242.108

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 6.59

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-49:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-243

 Date Analyzed:
 02/05/21
 Data File:
 102006-243.109

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.42

Arsenic 5.42
Cadmium <1
Lead 6.10

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-49:7 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-244

 Date Analyzed:
 02/05/21
 Data File:
 102006-244.110

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.84

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-20 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-246

 Date Analyzed:
 02/05/21
 Data File:
 102006-246.113

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: concentration mg/kg (ppm)

Arsenic 7.39
Cadmium <1
Lead 8.66

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-50:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-247

 Date Analyzed:
 02/05/21
 Data File:
 102006-247.114

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.89

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-50:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-248

 Date Analyzed:
 02/05/21
 Data File:
 102006-248.115

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.37 Cadmium <1 Lead 6.99

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-50:3.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-249

 Date Analyzed:
 02/05/21
 Data File:
 102006-249.116

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 $\begin{array}{ll} \text{Arsenic} & 7.35 \\ \text{Cadmium} & <1 \\ \text{Lead} & 10.1 \end{array}$ 

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-50:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-250

 Date Analyzed:
 02/05/21
 Data File:
 102006-250.117

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.77

Arsenic 6.77
Cadmium <1
Lead 8.01

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-51:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-252

 Date Analyzed:
 02/05/21
 Data File:
 102006-252.120

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.37 Cadmium <1 Lead 6.40

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-51:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-253

 Date Analyzed:
 02/05/21
 Data File:
 102006-253.121

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 2.98

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-51:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-254

 Date Analyzed:
 02/05/21
 Data File:
 102006-254.122

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.23

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-51:7 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-255

 Date Analyzed:
 02/05/21
 Data File:
 102006-255.125

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.94

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-52:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-257

 Date Analyzed:
 02/05/21
 Data File:
 102006-257.126

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 3.67

Analyte:

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-52:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-258

 Date Analyzed:
 02/05/21
 Data File:
 102006-258.127

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.95

Cadmium <1 Lead 11.7

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-52:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/04/21 102006-259 Date Analyzed: 02/05/21 Data File: 102006-259.128

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.27 Cadmium <1 10.2 Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-52:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-260

 Date Analyzed:
 02/05/21
 Data File:
 102006-260.129

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.84

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-21 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-262

 Date Analyzed:
 02/05/21
 Data File:
 102006-262.161

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.59 Cadmium <1 Lead 8.80

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-53:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-263

 Date Analyzed:
 02/05/21
 Data File:
 102006-263.162

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

Cadmium <1 Lead 4.10

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-53:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-264

 Date Analyzed:
 02/05/21
 Data File:
 102006-264.163

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.80
Cadmium <1
Lead 7.89

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-53:3.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-265

 Date Analyzed:
 02/05/21
 Data File:
 102006-265.164

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.43 Cadmium <1 Lead 5.85

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-53:5.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-266

 Date Analyzed:
 02/05/21
 Data File:
 102006-266.165

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.76 Cadmium <1 Lead 8.60

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-54:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-268

 Date Analyzed:
 02/05/21
 Data File:
 102006-268.168

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 6.27

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-54:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-269

 Date Analyzed:
 02/05/21
 Data File:
 102006-269.169

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.16

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-54:4 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-270

 Date Analyzed:
 02/05/21
 Data File:
 102006-270.170

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 1.97

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-54:6 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/04/21 102006-271 Date Analyzed: 02/05/21 Data File: 102006-271.171

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

Concentration

Analyte: mg/kg (ppm)

Arsenic 7.44 Cadmium <1 7.09 Lead

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-22 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-273

 Date Analyzed:
 02/05/21
 Data File:
 102006-273.172

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.07 Cadmium <1 Lead 4.56

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-55:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-274

 Date Analyzed:
 02/05/21
 Data File:
 102006-274.173

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.85 Cadmium <1 Lead 6.79

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-55:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-275

 Date Analyzed:
 02/05/21
 Data File:
 102006-275.174

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.23
Cadmium <1
Lead 7.20

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-55:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-276

 Date Analyzed:
 02/05/21
 Data File:
 102006-276.177

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$ 

Arsenic <5 Cadmium <1 Lead 3.09

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-55:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-277

 Date Analyzed:
 02/05/21
 Data File:
 102006-277.182

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.66

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-23 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-279

 Date Analyzed:
 02/05/21
 Data File:
 102006-279.183

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.01 Cadmium <1 Lead 5.25

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-56:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-280

 Date Analyzed:
 02/05/21
 Data File:
 102006-280.184

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 4.84

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-56:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-281

 Date Analyzed:
 02/05/21
 Data File:
 102006-281.185

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead 5.89

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-56:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-282

 Date Analyzed:
 02/05/21
 Data File:
 102006-282.186

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 Arsenic
 42.9

 Cadmium
 1.26

 Lead
 64.9

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-56:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-283

 Date Analyzed:
 02/05/21
 Data File:
 102006-283.187

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

 Arsenic
 9.57

 Cadmium
 <1</td>

 Lead
 7.65

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-57:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-285

 Date Analyzed:
 02/05/21
 Data File:
 102006-285.188

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.58
Cadmium <1
Lead 5.33

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-57:1.8 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-286

 Date Analyzed:
 02/05/21
 Data File:
 102006-286.189

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.11 Cadmium <1 Lead 7.67

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-57:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-287

 Date Analyzed:
 02/05/21
 Data File:
 102006-287.192

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-57:3.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-288

 Date Analyzed:
 02/05/21
 Data File:
 102006-288.193

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic 12.0 Cadmium <1 Lead 10.7

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: DUP-24 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-290

 Date Analyzed:
 02/05/21
 Data File:
 102006-290.194

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.8

Cadmium <10.8
Lead 9.72

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-58:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-291

 Date Analyzed:
 02/05/21
 Data File:
 102006-291.195

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.50 Cadmium <1 Lead 7.68

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-58:1 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-292

 Date Analyzed:
 02/05/21
 Data File:
 102006-292.196

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-58:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-293

 Date Analyzed:
 02/05/21
 Data File:
 102006-293.197

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.30 Cadmium <1 Lead 15.3

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-59:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-295

 Date Analyzed:
 02/05/21
 Data File:
 102006-295.198

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.86 Cadmium <1 Lead 5.44

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-59:1.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-296

 Date Analyzed:
 02/05/21
 Data File:
 102006-296.199

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-59:2.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-297

 Date Analyzed:
 02/05/21
 Data File:
 102006-297.200

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.07 Cadmium <1 Lead 12.9

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-59:4.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/04/21
 Lab ID:
 102006-298

 Date Analyzed:
 02/05/21
 Data File:
 102006-298.201

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.53 Cadmium <1 Lead 6.46

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-60:0.5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/05/21
 Lab ID:
 102006-300

 Date Analyzed:
 02/05/21
 Data File:
 102006-300.204

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: Concentration mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-60:2 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/05/21
 Lab ID:
 102006-301

 Date Analyzed:
 02/06/21
 Data File:
 102006-301.207

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-60:3 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/05/21
 Lab ID:
 102006-302

 Date Analyzed:
 02/06/21
 Data File:
 102006-302.208

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 14.3 Cadmium <1 Lead 20.4

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B-60:5 Client: TRC Environmental

Date Received: 02/01/21 Project: Haack Bros 424198, F&BI 102006

 Date Extracted:
 02/05/21
 Lab ID:
 102006-303

 Date Analyzed:
 02/06/21
 Data File:
 102006-303.209

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted:02/02/21Lab ID:I1-72 mbDate Analyzed:02/02/21Data File:I1-72 mb.149Matrix:SoilInstrument:ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/02/21 Lab ID: I1-73 mb
Date Analyzed: 02/02/21 Data File: I1-73 mb.152
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/03/21 Lab ID: I1-74 mb
Date Analyzed: 02/03/21 Data File: I1-74 mb.039
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/03/21 Lab ID: I1-75 mb
Date Analyzed: 02/03/21 Data File: I1-75 mb.087
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-76 mb
Date Analyzed: 02/04/21 Data File: I1-76 mb.067
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-77 mb
Date Analyzed: 02/04/21 Data File: I1-77 mb.087
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Lab ID: Date Extracted: 02/04/21 I1-78 mb Date Analyzed: 02/04/21 Data File: I1-78 mb.090 Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight SPOperator:

mig/kg (ppin) Dry Weight Operator.

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$ 

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-79 mb
Date Analyzed: 02/04/21 Data File: I1-79 mb.092
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-80 mb
Date Analyzed: 02/04/21 Data File: I1-80 mb.096
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-81 mb
Date Analyzed: 02/04/21 Data File: I1-81 mb.098
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-82 mb
Date Analyzed: 02/04/21 Data File: I1-82 mb.160
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/04/21 Lab ID: I1-83 mb
Date Analyzed: 02/04/21 Data File: I1-83 mb.163
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Arsenic <5 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 102006

Date Extracted: 02/05/21 Lab ID: I1-84 mb
Date Analyzed: 02/05/21 Data File: I1-84 mb.097
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	17.8	38 b	51 b	75-125	29 b
Cadmium	mg/kg (ppm)	10	<1	102	101	75 - 125	1

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	104	80-120
Cadmium	mg/kg (ppm)	10	110	80-120
Lead	mg/kg (ppm)	50	102	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-27 (Matrix Spike)

	Reporting	Spike	Sample Result	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	13.3	114	88	75-125	26 b
Cadmium	mg/kg (ppm)	10	<1	105	108	75 - 125	3
Lead	mg/kg (ppm)	50	40.2	106	101	75 - 125	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	96	80-120
Cadmium	mg/kg (ppm)	10	105	80-120
Lead	mg/kg (ppm)	50	100	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

#### UALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-52 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	5.97	85	109	75-125	25 b
Cadmium	mg/kg (ppm)	10	<1	104	106	75 - 125	2
Lead	mg/kg (ppm)	50	127	$128 \mathrm{\ b}$	164 b	75 - 125	$25~\mathrm{b}$

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Cadmium	mg/kg (ppm)	10	104	80-120
Lead	mg/kg (ppm)	50	100	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-77 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	85	92	75-125	8
Cadania							
Cadmium	mg/kg (ppm)	10	<1	104	105	75 - 125	1

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Cadmium	mg/kg (ppm)	10	108	80-120
Lead	mg/kg (ppm)	50	100	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-102 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	109	93	75-125	16
Cadmium	mg/kg (ppm)	10	<1	106	98	75 - 125	8
Lead	mg/kg (ppm)	50	8.96	118	96	75-125	21 vo

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	92	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Lead	mg/kg (ppm)	50	94	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-127 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	96	90	75-125	6
Cadania							
Cadmium	mg/kg (ppm)	10	<1	102	98	75 - 125	4

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Cadmium	mg/kg (ppm)	10	98	80-120
Lead	mg/kg (ppm)	50	94	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-152 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	$\operatorname{Spike}$	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	108	113	75-125	5
Cadmium	mg/kg (ppm)	10	<1	99	107	75 - 125	8
Lead	mg/kg (ppm)	50	4.25	100	107	75-125	7

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	101	80-120
Cadmium	mg/kg (ppm)	10	110	80-120
Lead	mg/kg (ppm)	50	109	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-177 (Matrix Spike)

	Reporting	Spike	Sample Result	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	6.09	101	114	75-125	12
Cadmium	mg/kg (ppm)	10	<1	97	99	75 - 125	2
Lead	mg/kg (ppm)	50	5.49	100	102	75 - 125	2

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Cadmium	mg/kg (ppm)	10	103	80-120
Lead	mg/kg (ppm)	50	99	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-201 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	6.22	108 b	73 b	75-125	39 b
Cadmium	mg/kg (ppm)	10	<1	111	89	75 - 125	22  vo
Lead	mg/kg (ppm)	50	10.5	111 b	90 b	75 - 125	$21 \mathrm{\ b}$

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	93	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Lead	mg/kg (ppm)	50	101	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

## UALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-226 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	82	84	75-125	2
Cadmium	m m/l+m (mmm)	10	<1	102	99	75 - 125	3
Caaminam	mg/kg (ppm)	10	<b>\</b> 1	102	99	19-129	J

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	92	80-120
Cadmium	mg/kg (ppm)	10	102	80-120
Lead	mg/kg (ppm)	50	97	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-250 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	5.49	79	79	75-125	0
Cadmium	mg/kg (ppm)	10	<1	92	96	75 - 125	4
Lead	mg/kg (ppm)	50	6.49	82	82	75 - 125	0

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Cadmium	mg/kg (ppm)	10	97	80-120
Lead	mg/kg (ppm)	50	96	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-275 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	64 b	76 b	75-125	17 b
Cadmium	mg/kg (ppm)	10	<1	96	93	75 - 125	3
0 00 00	mg/kg (ppm)	10	~1	30	90	10-120	J

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	90	80-120
Cadmium	mg/kg (ppm)	10	95	80-120
Lead	mg/kg (ppm)	50	94	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/11/21 Date Received: 02/01/21

Project: Haack Bros 424198, F&BI 102006

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102006-300 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	83	95	75-125	13
Cadmium	mg/kg (ppm)	10	<1	97	107	75 - 125	10
Lead	mg/kg (ppm)	50	2.69	83	90	75 - 125	8

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Cadmium	mg/kg (ppm)	10	98	80-120
Lead	mg/kg (ppm)	50	94	80-120

#### **ENVIRONMENTAL CHEMISTS**

### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone 475-45-0016 City, State, ZIP Magrah Address //90 NW Report To Nate Hinsperser Company\_\_ 8-21: 8-21:3 200000 8-20:08 5.0.27.0 8-21:2 8-21:0.5 B-20:15 8-24:3 X-20: Sample ID 7RC C> Email Milyage Ptaryands and Project specific RLs? - Yes / No Music Relinquished by: Relinguished by: Received by: Received by: NA 98527 20 99 36 ag 46 26 g 40 2 Lab ID SIGNATURE Sampled 1/26/21 Date SAMPLE CHAIN OF CUSTODY 1236 ジンク 1110 Time Sampled 11/2 1239 1254 1244 1240 1116 1242 SAMPLERS (signature) REMARKS PROJECT NAME Hauch Bros Sample A24148 36/ TypeBraz Jars PRINT NAME NWTPH-Dx Phan NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED KE VOCs EPA 8260 PO# PAHs EPA 8270 PCBs EPA 8082 Samples received at Fa BI COMPANY X X Pb, As, CJ Х × × メ Х × SAMPLE DISPOSAL

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Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.		8-29:3	R-29:1	R-29:0.5	12-28:10	الما	5	7-78:1.5	B-28:0.5	7)2-	B-27:16	Sample ID	AVVINE TO THE PARTY OF THE PART	Phone MI-75 wh Emai	l.	Company //c	Report To Nake Hisy	102006
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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. City, State, ZIP / Sagual MA 98027 Phone 475-355-0010 Email N/Mylogueto Triconformer Com Address\_\_ Company\_\_ Report To Nate Hins スノシー マンジング ス・ダン B-30: Z R 1 30:0.5 B-30: [@ Sample ID 102006 1180 Relinquished by: Relinquished by: Received by: Received by: 子 至 が 250 BH 去 王 无 142 프 Lab ID SIGNATURE wite 3/6 Date Sampled 127/2 なること SAMPLE CHAIN OF CUSTOUX = 36 1128 ニンで 1848 Time Sampled 万万 REMARKS 414148 ES S 1/20 W S 7 Project specific RLs? - Yes / PROJECT NAME SAMPLERS (signature) Sample Type るとなって Wester # of Jars PRINT NAME NWTPH-Dx Phax NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PAHs EPA 8270 PCBs EPA 8082 元の正 ME 02/01/21 Samples received at COMPANY 780 × Pb, As, Cd × × X X × × SAMPLE DISPOSAL

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Company TRC City, State, ZIP Is aprush MA 98027 Address //85 Alm Maple St. Report To Nate Phone 125 345 - 1010 Email Minipage Pta Confine Project specific RLs? - Yes / No 900201 の一人のころに 77 77 1 でより、る、公 ファーフ Sample ID Relinquished by: Relinquished by: Received by: Received by 2009 206 と 208 # KG 202 201 Z ある ろろ Lab ID SIGNATURE Sampled 1/20/2 Date SAMPLE CHAIN OF CUSTODY 8860 095% Time Sampled 10/2 1027 0 1016 0/4 102% 3 REMARKS SAMPLERS (signature) PROJECT NAME Haach Bros Sample Type 424198 STAZ # of Jars PRINT NAME NWTPH-Dx てひなび NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 #0# PAHs EPA 8270 PCBs EPA 8082 FOB! COMPANY  $\times$ X X PhAs, Cd X Samples received at  $\succ$ X × HE 02/01/21 X Default: Dispose after 30 days □ Other Archive samples Rush charges authorized by: Standard turnaround TURNAROUND TIME SAMPLE DISPOSAL DATE U Notes per ww င်္ခ TIME 12/2/2 1000

Ph. (206) 285-8282 City, State, ZIP Isaquah WA 98027 Address 1190 NW Maple St. Seattle, WA 98119-2029 3012 I6th Avenue West Company TRC Phone 1/25-395 0010 Friedman & Bruya, Inc. Report To Nate Hingloge 102006 7-45:3 ブーニへ OO OOひしる。 8-43:4 1 Sample ID 143.70 Email Mhigge Thumpula Project specific RLs? - Yes / No Received by: Relinquished by: Relinquished by: Received by: 718 カカ 213 2 220 الم 27 225 アピ 717 Lab ID Swife 310 SIGNATURE 1/28/1 Date Sampled SAMPLE CHAIN OF CUSTODY Time Sampled 1049 -v V 1026 うつ しつなの 1047 12 C 030 820 シャク REMARKS PROJECT NAME SAMPLERS (signature) Haack Bos Sample Type 100 474/98 20,22 # of Jars well whiter PRINT NAME NWTPH-Dx Phos NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 PCBs EPA 8082 ROI COMPANY Pb, As, Co X X Х X X Samples received at Default: Dispose after 30 days Archive samples Rush charges authorized by: () RUSH\_\_\_\_\_\_ Page # 22 of 31 TURNAROUND TIME SAMPLE DISPOSAL DATE Notes to the Bun -Per No 75-7 7 TIME 1000

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Report To Nock Hingurge Seattle, WA 98119-2029 Address 1180 NW Maple Ph. (206) 285-8282 3012 16th Avenue West Friedman & Bruya, Inc. Phone 425-355-0610 Email Notingly OTT Longanie Froject specific RLs? - Yes / No B-50:25 5-50:05 カーエロ・ひ B-49:10 N-49:5 28-20 Sample ID し、 か、 、 と 2.0 Received by: Relinquished by: Relinquished by: Received by: 249 からん <u>건</u> 250 248 946 545 243 とと 242 Lab ID F. Sight 310 SIGNATURE Sampled 128/21 Date SAMPLE CHAIN OF COSTODY Time Sampled 1330 を公 332 U 2 00 \$3 \$4 \$4 SAMPLERS (signature) 344 226 550 346 REMARKS PROJECT NAME Hunch Bros Sample Type \\ \( \) \( \) \( \) 424178 Whan Phan # of Jars werley breight PRINT NAME NWTPH-Dx NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 PCBs EPA 8082 FCBI COMPANY X Pb, As, Co X X X X X X X X Samples received at 5 C RUSH turnaround Default: Dispose after 30 days □ Other Archive samples Rush charges authorized by: 18 10 C2 # 31 TURNAROUND TIME SAMPLE DISPOSAL (+) <u>|</u> L DATE Notes per we 게고 000 TIME

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□ Archive samples Rush charges authorized by: □ Other Standard turnaround Page# TURNAROUND TIME SAMPLE DISPOSAL 7 of 3

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#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

February 23, 2021

Nate Hinsperger, Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Bros, F&BI 102006

Dear Mr Hinsperger:

Included are the additional results from the testing of material submitted on February 1, 2021 from the Haack Bros, F&BI 102006 project. There are 13 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC0223R.DOC

#### **ENVIRONMENTAL CHEMISTS**

#### CASE NARRATIVE

This case narrative encompasses samples received on February 1, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Bros 424198, F&BI 102006 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID 102006-01 102006-02 102006-03 102006-04 102006-05 102006-06 102006-07 102006-08 102006-10 102006-10 102006-11 102006-12 102006-13 102006-14 102006-15 102006-16 102006-17 102006-18 102006-19 102006-20 102006-21 102006-21 102006-23 102006-24 102006-25 102006-26 102006-27 102006-28 102006-29 102006-30 102006-31 102006-31	TRC Environmental B-1:0.5 B-1:2 B-1:10 B-2:0.5 B-2:2 B-2:10 DUP-1 B-3:0.5 B-3:2 B-3:10 B-4:0.3 B-4:0.5 B-4:2.5 B-4:10 B-5:0.3 B-5:1 B-5:3 B-5:10 DUP-2 B-6:0.5 B-6:2 B-6:4 B-6:6 B-7:0.5 B-7:2 B-7:4 B-7:6 B-7:10 DUP-3 B-8:0.5 B-8:2
102006-30	DUP-3
102006-31	B-8:0.5
102006-32	B-8:2
102006-33	B-8:3
102006-34	B-8:5
102006-35	B-8:10
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## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-36	B-9:0.3
102006-37	B-9:1
102006-38	B-9:3
102006-39	B-9:10
102006-40	DUP-4
102006-41	B-10:0.3
102006-42	B-10:1
102006-43	B-10:3
102006-44	B-10:10
102006-45	B-11:0.5
102006-46	B-11:1
102006-47	B-11:3
102006-48	B-11:10
102006-49	DUP-5
102006-50	B-12:0.5
102006-51	B-12:1
102006-52	B-12:3
102006-53	B-12:10
102006-54	B-13:0.5
102006-55	B-13:1.5
102006-56	B-13:2
102006-57	B-13:4
102006-58	B-13:10
102006-59	DUP-6
102006-60	B-14:0.5
102006-61	B-14:2
102006-62	B-14:3
102006-63	B-14:5
102006-64	B-14:10
102006-65	B-15:0.5
102006-66	B-15:2
102006-67	B-15:3
102006-68	B-15:5
102006-69	B-15:10
102006-70	B-16:0.5

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-71	B-16:2
102006-72	B-16:2.5
102006-73	B-16:5
102006-74	B-16:10
102006-75	DUP-7
102006-76	B-17:0.5
102006-77	B-17:2
102006-78	B-17:3
102006-79	B-17:5
102006-80	B-17:10
102006-81	B-18:0.5
102006-82	B-18:1.8
102006-83	B-18:2
102006-84	B-18:4.2
102006-85	B-18:10
102006-86	B-19:0.5
102006-87	B-19:1
102006-88	B-19:3
102006-89	B-19:10
102006-90	DUP-8
102006-91	B-20:05
102006-92	B-20:1
102006-93	B-20:3
102006-94	B-20:10
102006-95	B-21:0.5
102006-96	B-21:2
102006-97	B-21:3
102006-98	B-21:5
102006-99	B-21:10
102006-100	B-22:0.5
102006-101	B-22:1.5
102006-102	B-22:2.5
102006-103	B-22:4
102006-104	B-22:10
102006-105	B-23:0.5

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-106	B-23:1.5
102006-107	B-23:2
102006-108	B-23:4
102006-109	B-23:10
102006-110	DUP-9
102006-111	B-24:0.5
102006-112	B-24:2
102006-113	B-24:3
102006-114	B-24:5
102006-115	B-24:10
102006-116	DUP-10
102006-117	B-25:0.5
102006-118	B-25:2
102006-119	B-25:2.5
102006-120	B-25:5
102006-121	B-25:10
102006-122	B-26:0.5
102006-123	B-26:2
102006-124	B-26:2.5
102006-125	B-26:5
102006-126	B-26:10
102006-127	B-27:0.5
102006-128	B-27:2
102006-129	B-27:4
102006-130	B-27:6
102006-131	B-27:10
102006-132	DUP-11
102006-133	B-28:0.5
102006-134	B-28:1.5
102006-135	B-28:2
102006-136	B-28:4
102006-137	B-28:10
102006-138	B-29:0.5
102006-139	B-29:1
102006-140	B-29:3

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-141	B-29:10
102006-142	B-30:0.5
102006-143	B-30:2
102006-144	B-30:3
102006-145	B-30:5
102006-146	B-30:10
102006-147	B-31:0.5
102006-148	B-31:1
102006-149	B-31:3
102006-150	B-31:10
102006-151	B-32:0.5
102006-152	B-32:2
102006-153	B-32:3
102006-154	B-32:5
102006-155	B-32:10
102006-156	B-33:0.5
102006-157	B-33:1
102006-158	B-33:3
102006-159	B-33:10
102006-160	DUP-13
102006-161	B-34:0.5
102006-162	B-34:1.5
102006-163	B-34:2.5
102006-164	B-34:4
102006-165	B-34:10
102006-166	DUP-14
102006-167	B-35:0.5
102006-168	B-35:2
102006-169	B-35:3
102006-170	B-35:5
102006-171	B-35:10
102006-172	B-36:0.5
102006-173	B-36:2
102006-174	B-36:4
102006-175	B-36:6

## ENVIRONMENTAL CHEMISTS

<u>Laboratory ID</u>	TRC Environmental
102006-176	B-36:10
102006-177	B-37:0.5
102006-178	B-37:2.5
102006-179	B-37:4
102006-180	B-37:6
102006-181	B-37:10
102006-182	DUP-15
102006-183	B-38:0.5
102006-184	B-38:1
102006-185	B-38:3
102006-186	B-38:10
102006-187	B-39:0.5
102006-188	B-39:2
102006-189	B-39:5
102006-190	B-39:7
102006-191	B-39:10
102006-192	DUP-16
102006-193	B-40:0.5
102006-194	B-40:2
102006-195	B-40:3.5
102006-196	B-40:5.5
102006-197	B-40:10
102006-198	B-41:0.5
102006-199	B-41:1.5
102006-200	B-41:2.5
102006-201	B-41:5
102006-202	B-41:10
102006-203	DUP-17
102006-204	B-42:0.5
102006-205	B-42:2
102006-206	B-42:4.5
102006-207	B-42:6
102006-208	B-42:10
102006-209	B-43:0.5
102006-210	B-43:2

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-211	B-43:4
102006-212	B-43:6
102006-213	B-43:10
102006-214	B-44:0.5
102006-215	B-44:2
102006-216	B-44:4.5
102006-217	B-44:6
102006-218	B-44:10
102006-219	B-45:1
102006-220	B-45:3
102006-221	B-45:4
102006-222	B-45:6
102006-223	B-45:10
102006-224	DUP-18
102006-225	B-46:0.5
102006-226	B-46:2
102006-227	B-46:3
102006-228	B-46:5
102006-229	B-46:10
102006-230	B-47:0.5
102006-231	B-47:2
102006-232	B-47:2.5
102006-233	B-47:4.5
102006-234	B-47:10
102006-235	DUP-19
102006-236	B-48:1
102006-237	B-48:3
102006-238	B-48:5
102006-239	B-48:7
102006-240	B-48:10
102006-241	B-49:1
102006-242	B-49:3
102006-243	B-49:5
102006-244	B-49:7
102006-245	B-49:10

## ENVIRONMENTAL CHEMISTS

Laboratory ID	TRC Environmental
102006-246	DUP-20
102006-247	B-50:0.5
102006-248	B-50:2.5
102006-249	B-50:3.5
102006-250	B-50:5
102006-251	B-50:10
102006-252	B-51:0.5
102006-253	B-51:2
102006-254	B-51:5
102006-255	B-51:7
102006-256	B-51:10
102006-257	B-52:0.5
102006-258	B-52:2
102006-259	B-52:4
102006-260	B-52:6
102006-261	B-52:10
102006-262	DUP-21
102006-263	B-53:0.5
102006-264	B-53:2.5
102006-265	B-53:3.5
102006-266	B-53:5.5
102006-267	B-53:10
102006-268	B-54:0.5
102006-269	B-54:2.5
102006-270	B-54:4
102006-271	B-54:6
102006-272	B-54:10
102006-273	DUP-22
102006-274	B-55:0.5
102006-275	B-55:2
102006-276	B-55:3
102006-277	B-55:5
102006-278	B-55:10
102006-279	DUP-23
102006-280	B-56:0.5

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	TRC Environmental
102006-281	B-56:2
102006-282	B-56:3
102006-283	B-56:5
102006-284	B-56:10
102006-285	B-57:0.5
102006-286	B-57:1.8
102006-287	B-57:2
102006-288	B-57:3.5
102006-289	B-57:10
102006-290	DUP-24
102006-291	B-58:0.5
102006-292	B-58:1
102006-293	B-58:3
102006-294	B-58:10
102006-295	B-59:0.5
102006-296	B-59:1.5
102006-297	B-59:2.5
102006-298	B-59:4.5
102006-299	B-59:10
102006-300	B-60:0.5
102006-301	B-60:2
102006-302	B-60:3
102006-303	B-60:5
102006-304	B-60:10
102006-305	Dup-12
10100000	P

All quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

#### Analysis For Total Metals By EPA Method 6020B

Client ID: Dup-12 Client: TRC Environmental
Date Received: 02/01/21 Project: Haack Bros, F&BI 102006

 Date Extracted:
 02/17/21
 Lab ID:
 102006-305

 Date Analyzed:
 02/19/21
 Data File:
 102006-305.067

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration mg/kg (ppm)

Analyte: mg/kg (ppm)

 $\begin{array}{ll} \text{Arsenic} & 3.47 \\ \text{Cadmium} & <1 \\ \text{Lead} & 3.21 \end{array}$ 

#### **ENVIRONMENTAL CHEMISTS**

#### Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental
Date Received: Not Applicable Project: Haack Bros, F&BI 102006

Date Extracted: 02/17/21 Lab ID: I1-122 mb
Date Analyzed: 02/18/21 Data File: I1-122 mb.036
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 02/23/21 Date Received: 02/01/21

Project: Haack Bros, F&BI 102006

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 102211-44 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	98	95	75-125	3
		10	-0	00	55	10 120	· ·
Cadmium	mg/kg (ppm)	10	<5	100	98	75-125	$\frac{3}{2}$

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Cadmium	mg/kg (ppm)	10	100	80-120
Lead	mg/kg (ppm)	50	98	80-120

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Address //80 Nov Company\_TRC Report To Wate Phone 415-785-040 Email Mayaque Munqued & Project specific RLs? - Yes / No City, State, ZIP Losqueh Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. B-2705 8-1:10 2000 マイバの でかって 20000 なるでので 10-3:2 8-1-2 B-1:0.5 Sample ID Relinquished by: Received by/ Relinquished by: Received by: WIN 2 96 h 40 S 2 0 S 80  $\overline{\delta}$ Lab ID 18027 SIGNATURE 1/25/21 Sampled auro Date SAMPLE CHAIN OF CUSTODY Time Sampled 1030 1028 1026 1000 25.60 010 1002 PROJECT NAME SAMPLERS (signature) 10/4 2/01 REMARKS Hack Bru Sample Type 1105 424198 お下るさ # of Jars PRINT NAME NWTPH-Dx NWTPH-Gx がらが BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 Ž# PAHs EPA 8270 Samples received at PCBs EPA 8082 FRBI COMPANY X X X As. Cd X X X Z XStandard turnaround Rush charges authorized by: Default: Dispose after 30 days O Archive samples TURNAROUND TIME Page # SAMPLE DISPOSAL Þ DATE 16 16th- Pun Notes PEC WW 1000 TIME 포

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone 125 ME solo City, State, ZIP & Regent WA 98027 Address 1180 NW Maple St. Report To Nat 900 to1 8-13:10 8-13:4 B-13:2 K-14: 0.5 8-17:15 R-13 : 8.7 8-12:10 8-12:3 B-12; Sample ID Email Allingua Coth compare Loth Project specific RLs? - Yes / No Relinquished by: Received by: Relinquished by: Received by: 00 N B 3 2 5 53 か 2 53 57 Ŋ Lab ID SIGNATURE Sampled 1/25/20 126/21 asset 0920 SAMPLE CHAIN OF CUSTODY 0934 1922 REMARKS 8150 Time Sampled 07/1 D 10 / 12 924 8141 1416 SAMPLERS (signature) PROJECT NAME Hauch Pay Туре Sample Soil þ Shan WESTEN # of Jars PRINT NAME NWTPH.Dx Phaniles NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 #09# ME 02/01/21 PAHs EPA 8270 PCBs EPA 8082 Samples received at COMPANY TABL X P6, A5, Cd X Х X × メ × 180 N Standard turnaround □ Other\_ Archive samples Rush charges authorized by: Default: Dispose after 30 days TURNAROUND TIME Page # (Q of , J SAMPLE DISPOSAL 16 16 DATE B Notes 1000 TIME 기기

Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Address 1/90 NW Magle Str Company TRC Phone 15-35 1616 Email Whinguy of Miconfluxion Project specific RLs? - Yes I No City, State, ZIP Isaquah WA 98027 Report To Note B-14:2 D-14:3 B-14:5 8-15:05 B-14:10 8-57:2 B-16: 85 デーでいる B-15:10 8-15-5 102006 Sample ID Received by: Received by: Relinquished by: 69 0 50 8 43 R 8 62 Lab ID Swite 310 SIGNATURE 1/26/21 Sampled aux Date D SAMPLE CHAIN OF CUSTODY 09.5% B 1 60 5954 9970 Time Sampled 0952 6936 1008 0942 0938 0998 SAMPLERS (signature) REMARKS PROJECT NAME Hauch Bos 424/98 Sample 501/ Type Show # of Jars PRINT NAME Wester! NWTPH-Dx でからる NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 PCBs EPA 8082 ME 02/01/2/ FLBI COMPANY Pb, As, Cd × × X X X X Samples received at X × SAMPLE DISPOSAL

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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282

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Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.	·	R-80:5	B-175:35	B-80:25	B-80:0.5	DP-20	8-49:10	3-49:7		2-49:3	2-49:	Sample ID	parterior and adopting a few approximations and the particular and the	Phone 425-355-0010 En	4.	Address 1180 Now Maple	Company TRC	Report To Make Hidelocker
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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. City, State, ZIP\_ Phone 425-395-0510 Email White fugue 10 TRUC on the Project specific RLs? Yes / No Report To Nate Address\_\_\_ Company\_\_\_ 20000 8-54:25 B-54:0.5 8-53:10 8-57.25 ار ا ひころしつ Sample ID 1180 NW Maple TRC 7 Magnah 7 5 Relinquished by: Received by: Relinquished by-Received by **光** 269 49 C 261 368 900 265 264 262 203 MA 98027 Lab ID SIGNATURE D. 1/29/2 1/28/21 128h Sampled Date からう thoil SAMPLE CHAIN OF CUSTODY 2003 1040 Time Sampled 1038 1632 REMARKS 4/24/98 1030 世30 (034 1036 SAMPLERS (signature) PROJECT NAME Hack Bos. Sample Type Mhan # of Jars PRINT NAME NWTPH-Dx Phan NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 -PO# ME 02/01/21 PAHs EPA 8270 7 PCBs EPA 8082 COMPANY (On Х Pb, X Х X X X X Samples received at HStandard turnaround Archive samples O RUSH C Other Rush charges authorized by: Default: Dispose after 30 days TURNAROUND TIME SAMPLE DISPOSAL DATE Hotel pun Notes PCYEE TIME 게 *J00d* Ö

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Ph. (206) 285-8282

Seattle, WA 98119-2029

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruyå, Inc. Report To Nate Phone 1/15 - 1016 Email NHhypepel Maybend Project specific RLs? - Yes I No City, State, ZIP I grannell Address 1186 NW Maple St. Company TRC 102006 8-57:65 R-57: 18 オーバー・ス -56:10 Sample ID Relinquished by: Relinguished by: Received by: Received pyd/ lift towns <u>2</u> بهلاي WA 95127 *₩* 285 Lab ID がかん 2 V V 200 286 435 986 SIGNATURE Date Sampled 1/29/21 SAMPLE CHAIN OF CUSTODY Time Sampled 1112 8011 22 REMARKS 404198 6  $\mathbb{Z}$ 200 SAMPLERS (signature) PROJECT NAME Sample Type 5417 bhan # of Jars PRINT NAME NWTPH-Dxアロス weither NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 #09# PAHs EPA 8270 PCBs EPA 8082 COMPANY Feal Pb, As, Cd  $\times$ X × X 人  $\times$ X bamples releaved at X Standard turnaround O Archive samples Rush charges authorized by: Default: Dispose after 30 days TURNAROUND TIME Page # 27 of 3/ SAMPLE DISPOSAL 2/1/21 DATE Notes DEN WW amil ユニュ へなっち 000

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Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone 475 375 00/0 Email NHogy good The and roll Project specific RLs? - Yes / No City, State, ZIP Isayunh WA Address 1180 NW Maple Company The Report To Note Hinsperser 900201 B-60:2 B-60:10 8-60:5 -60:3 Sample ID Relinquished by: Received by: Relinquished by: Received part [ 305 W 0 W 208 302 Lab ID 000 Ŧ SIGNATURE 98027 16/2011 Swite 3/0 1/29/21 Date Sampled SAMPLE CHAIN OF CUSTODY 1208 Time Sampled 1210 12/4 12/2 REMARKS 424/98 PROJECT NAME SAMPLERS (signature) 1/2011 Hage Bry Sample Type える bhan # of Jars PRINT NAME NWTPH-Dx てひなる 10613617 BTEX EPA 8021 NWTPH-HCID INVOICE TO MALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 110/CO 3H PCBs EPA 8082 TRAT COMPANY PB, AS, Cd × Samples referred at Standard turnaround SAMPLE DISPOSAL [] Other\_ Default: Dispose after 30 days Rush charges authorized by: TURNAROUND TIME 2/1/21 DATE MP) WINZ 1-per www Hotel Pun DEVAN S TIME 万元 100 O

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 28, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Brothers 424198, F&BI 110506

Dear Mr Weisberg:

Included are the results from the testing of material submitted on October 27, 2021 from the Haack Brothers 424198, F&BI 110506 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC1028R.DOC

#### **ENVIRONMENTAL CHEMISTS**

# CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Brothers 424198, F&BI 110506 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
110506-01	B11-1:3
110506-02	B19-1:3
110506-03	B21-1:3
110506-04	B15-1:3

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	B11-1:3	Client:	TRC Environmental
Date Received:	10/27/21	Project:	424198, F&BI 110506
Date Extracted:	10/27/21	Lab ID:	110506-01
Date Analyzed:	10/27/21	Data File:	110506-01.078
Matrix:	Soil	Instrument:	ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.93
Barium	89.6
Cadmium	<1
Lead	24.1
Mercury	<1
Selenium	<1
Silver	<1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B11-1:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110506

Matrix: Soil Instrument: ICPMS2
Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 33.8

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	B19-1:3	Client:	TRC Environmental
Date Received:	10/27/21	Project:	424198, F&BI 110506
Date Extracted:	10/27/21	Lab ID:	110506-02
Data Analyzad	10/27/21	Data File	110506-02 079

Date Analyzed: 10/27/21 Data File: 110506-02.079 Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	20.6
Barium	135
Cadmium	<1
Chromium	25.3
Lead	56.0
Mercury	<1
Selenium	<1
Silver	<1

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	B21-1:3	Client:	TRC Environmental
Date Received:	10/27/21	Project:	424198, F&BI 110506
Date Extracted:	10/27/21	Lab ID:	110506-03
Date Analyzed:	10/27/21	Data File:	110506-03.080

Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	28.5
Barium	129
Cadmium	<1
Lead	121
Mercury	<1
Selenium	<1
Silver	<1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B21-1:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110506

 Date Extracted:
 10/27/21
 Lab ID:
 110506-03 x5

 Date Analyzed:
 10/27/21
 Data File:
 110506-03 x5.084

Matrix: Soil Instrument: ICPMS2
Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 30.2

# ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 6020B

Client ID:	B15-1:3	Client:	TRC Environmental
Date Received:	10/27/21	Project:	424198, F&BI 110506
Date Extracted:	10/27/21	Lab ID:	110506-04
Date Analyzed:	10/27/21	Data File:	110506-04.081
Matrix:	Soil	Instrument:	ICPMS2
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Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	34.0
Barium	189
Cadmium	1.43
Mercury	<1
Selenium	<1
Silver	2.14

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B15-1:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110506

 Date Extracted:
 10/27/21
 Lab ID:
 110506-04 x5

 Date Analyzed:
 10/27/21
 Data File:
 110506-04 x5.085

Matrix: Soil Instrument: ICPMS2
Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Chromium 27.4 Lead 622

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	424198, F&BI 110506
Data Extracted	10/97/91	Lab ID:	I1 695 mb9

 Date Extracted:
 10/27/21
 Lab ID:
 I1-685 mb2

 Date Analyzed:
 10/27/21
 Data File:
 I1-685 mb2.057

 Materials:
 Collaboration of the control of

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Analyte: Concentration mg/kg (ppm)

Arsonic

Arsenic <1 Barium <1 Cadmium <1 Chromium <1 Lead <1 Mercury <1 Selenium <1 Silver <1

#### **ENVIRONMENTAL CHEMISTS**

# Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID: B21-1:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110506

 Date Extracted:
 10/27/21
 Lab ID:
 110506-03

 Date Analyzed:
 10/28/21
 Data File:
 110506-03.054

 Matrix:
 Soil/Solid
 Instrument:
 ICPMS2

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Lead <1 5.0

#### **ENVIRONMENTAL CHEMISTS**

### Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID: B15-1:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110506

 Date Extracted:
 10/27/21
 Lab ID:
 110506-04

 Date Analyzed:
 10/28/21
 Data File:
 110506-04.057

 Matrix:
 Soil/Solid
 Instrument:
 ICPMS2

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Lead <1 5.0

#### **ENVIRONMENTAL CHEMISTS**

### Analysis for TCLP Metals By EPA Method 6020B and 1311

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110506

Date Extracted: 10/27/21 Lab ID: I1-691 mb
Date Analyzed: 10/28/21 Data File: I1-691 mb.052
Matrix: Soil/Solid Instrument: ICPMS2

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Lead <1 5.0

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/28/21 Date Received: 10/27/21

Project: Haack Brothers 424198, F&BI 110506

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110482-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	2.06	97	94	75-125	3
Barium	mg/kg (ppm)	50	39.2	106	98	75 - 125	8
Cadmium	mg/kg (ppm)	10	<1	99	98	75 - 125	1
Chromium	mg/kg (ppm)	50	19.6	86	82	75-125	5
Lead	mg/kg (ppm)	50	12.4	96	85	75 - 125	12
Mercury	mg/kg (ppm	5	<1	100	101	75 - 125	1
Selenium	mg/kg (ppm)	5	<1	93	95	75 - 125	2
Silver	mg/kg (ppm)	10	<1	93	95	75 - 125	2

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	92	80-120
Barium	mg/kg (ppm)	50	97	80-120
Cadmium	mg/kg (ppm)	10	97	80-120
Chromium	mg/kg (ppm)	50	99	80-120
Lead	mg/kg (ppm)	50	100	80-120
Mercury	mg/kg (ppm)	5	104	80-120
Selenium	mg/kg (ppm)	5	89	80-120
Silver	mg/kg (ppm)	10	92	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/28/21 Date Received: 10/27/21

Project: Haack Brothers 424198, F&BI 110506

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/SOLID SAMPLES FOR TCLP METALS USING EPA METHODS 6020B AND 1311

Laboratory Code: 110506-03 (Matrix Spike)

				Percent	Percent			
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD	
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)	
Lead	mg/L (ppm)	1.0	<1	92	89	75-125	3	•

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/L (ppm)	1.0	93	80-120

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

110506

Report To Userley Weilber

Company\_TRC

Address\_ 1160 NW Majo こますい 3770

Phone 425-495-00/6 Email Wwelfwyl Mrod squared Project specific RLs? . Yes / No City, State, ZIP\_ Isayunt. NA 98027

SAMPLE CHAIN OF CUSTODY

ME 10/27/21

REMARKS PROJECT NAME SAMPLERS (signature) Haad Brother 424198 INVOICE TO PO#-Other
 Default: Dispose after 30 days

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Seattle, WA 98119-2029 Ph. (206) 285-8282 3012 16th Avenue West

Relinquished by:

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Friedman & Bruya, Inc.

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#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 1, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Brothers 424198, F&BI 110535

Dear Mr Weisberg:

Included are the results from the testing of material submitted on October 27, 2021 from the Haack Brothers 424198, F&BI 110535 project. There are 30 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC1101R.DOC

#### **ENVIRONMENTAL CHEMISTS**

### CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Brothers 424198, F&BI 110535 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
110535-01	B1SW-N:0.5
110535-02	B1SW-E:0.5
110535-03	B1SW-S:0.5
110535-04	B1SW-W:0.5
110535-05	B1B-1:1.5
110535-06	B1B-2:1.5
110535-07	B14SW-W:3
110535-08	B14SW-N:3
110535-09	B14SW-E:3
110535-10	B14SW-S:3
110535-11	B14B-1:4
110535-12	B14B-2:4
110535-13	B41SW-N:02.5
110535-14	B41SW-E:2.5
110535-15	B41SW-S:2.5
110535-16	B41SW-W:2.5
110535-17	B41B-1:3.5
110535-18	B41B-2:3.5
110535-19	B24SW-N:5
110535-20	B24SW-E:5
110535-21	B24SW-S:5
110535-22	B24SW-W:5
110535-23	B24B-1:6
110535-24	B24B-2:6

All quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1SW-N:0.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-01

 Date Analyzed:
 10/28/21
 Data File:
 110535-01.058

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 14.5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1SW-E:0.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-02

 Date Analyzed:
 10/28/21
 Data File:
 110535-02.061

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 17.1

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1SW-S:0.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-03

 Date Analyzed:
 10/28/21
 Data File:
 110535-03.065

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 13.5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1SW-W:0.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-04

 Date Analyzed:
 10/28/21
 Data File:
 110535-04.066

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.82

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1B-1:1.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-05

 Date Analyzed:
 10/28/21
 Data File:
 110535-05.067

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 8.45

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1B-2:1.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-06

 Date Analyzed:
 10/28/21
 Data File:
 110535-06.068

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 27.1

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B14SW-W:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-07

 Date Analyzed:
 10/28/21
 Data File:
 110535-07.069

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 14.4

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B14SW-N:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-08

 Date Analyzed:
 10/28/21
 Data File:
 110535-08.070

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.74

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B14SW-E:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-09

 Date Analyzed:
 10/28/21
 Data File:
 110535-09.071

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.30 Lead 4.85

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B14SW-S:3 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-10

 Date Analyzed:
 10/28/21
 Data File:
 110535-10.072

 Matrix:
 Soil
 Instrument:
 ICPMS2

Matrix: Soil Instrument: ICPMS
Units: mg/kg (ppm) Dry Weight Operator: SP

g (ppin) Dry Weight Operator.

Analyte: Concentration mg/kg (ppm)

Arsenic 4.48

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B14B-1:4 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-11

 Date Analyzed:
 10/28/21
 Data File:
 110535-11.073

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 28.1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B14B-2:4 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-12

 Date Analyzed:
 10/28/21
 Data File:
 110535-12.076

 Matrix:
 Soil
 Instrument:
 ICPMS2

Matrix: Soil Instrument: ICPMS2
Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.28

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B41SW-N:02.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-13

 Date Analyzed:
 10/28/21
 Data File:
 110535-13.077

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Cadmium <1

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B41SW-E:2.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-14

 Date Analyzed:
 10/28/21
 Data File:
 110535-14.078

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Cadmium <1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B41SW-S:2.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-15

 Date Analyzed:
 10/28/21
 Data File:
 110535-15.079

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

its: mg/kg (ppm) Dry Weight Operator: Si

Concentration mg/kg (ppm)

Cadmium <1

Analyte:

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B41SW-W:2.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-16

 Date Analyzed:
 10/28/21
 Data File:
 110535-16.080

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Cadmium <1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B41B-1:3.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-17

 Date Analyzed:
 10/28/21
 Data File:
 110535-17.081

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Cadmium <1

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B41B-2:3.5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-18

 Date Analyzed:
 10/28/21
 Data File:
 110535-18.082

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Cadmium 1.06

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B24SW-N:5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-19

 Date Analyzed:
 10/28/21
 Data File:
 110535-19.083

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.15

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B24SW-E:5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-20

 Date Analyzed:
 10/28/21
 Data File:
 110535-20.084

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 5.63

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: B24SW-S:5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-21

 Date Analyzed:
 10/28/21
 Data File:
 110535-21.091

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.79

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B24SW-W:5 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-22

 Date Analyzed:
 10/28/21
 Data File:
 110535-22.094

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.33

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B24B-1:6 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-23

 Date Analyzed:
 10/28/21
 Data File:
 110535-23.097

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 13.3

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B24B-2:6 Client: TRC Environmental Date Received: 10/27/21 Project: 424198, F&BI 110535

 Date Extracted:
 10/28/21
 Lab ID:
 110535-24

 Date Analyzed:
 10/28/21
 Data File:
 110535-24.098

 Matrix:
 Soil
 Instrument:
 ICPMS2

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 9.44

#### **ENVIRONMENTAL CHEMISTS**

### Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110535

Date Extracted: 10/28/21 Lab ID: I1-693 mb
Date Analyzed: 10/28/21 Data File: I1-693 mb.046
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

 $\begin{array}{cc} & & Concentration \\ Analyte: & & mg/kg \ (ppm) \end{array}$ 

Arsenic <1 Cadmium <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110535

Date Extracted: 10/28/21 Lab ID: I1-694 mb
Date Analyzed: 10/28/21 Data File: I1-694 mb.048
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/01/21 Date Received: 10/27/21

Project: Haack Brothers 424198, F&BI 110535

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110535-01 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	9.90	82	96	75-125	16
Cadmium	mg/kg (ppm)	10	<5	90	94	75 - 125	4
Lead	mg/kg (ppm)	50	25.4	83	92	75-125	10

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	87	80-120
Cadmium	mg/kg (ppm)	10	93	80-120
Lead	mg/kg (ppm)	50	93	80-120

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/01/21 Date Received: 10/27/21

Project: Haack Brothers 424198, F&BI 110535

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110535-21 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	85	85	75-125	0

Laboratory Code: Laboratory Control Sample

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Arsenic	mg/kg (ppm)	10	88	80-120	

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Date Sampled Sampled Signature	
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City, State, ZIP Isaguah Will 98077 Address 1180 NW Maple St. Swite 310 Company TRC Report To Wesley Weir beg Phone 425-375-0010 Email Mulithey The compared on Project specific RLs? - Yes / No Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Ph. (206) 285-8282 BUILDIN - W: 2.5 By150 - 5: 25 B24501-16:5 B41/SW-E: 2.5 R415W-1112.5 B411B-1:3.5 814B-2:4 アニストニュ B245N-N:5 8418-2:35 Sample ID Relinquished by: Received by: Rehinduished by: ĭ RO G I T. Lab ID SIGNATURE 10/27/21 Sampled Date SAMPLE CHAIN OF CUSTODY  $ME /o/\lambda + 1/\lambda$ 2 2 2 3 3 1532 Sampled 1531 359 1530 <u>こ</u> つ 1533 SAMPLERS (signature) REMARKS PROJECT NAME (A) 1534 Hasch Brother 861724 Sample 500/ Type Jessi ca Jars PRINT NAME NWTPH-Dx なころ NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PO# PAHs EPA 8270 PCBs EPA 8082 Samples received COMPANY  $\prec$ \* × 义 >< SAMPLE DISPOSAL

Archive samples ☐ Standard turnaround

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Report To Wesley Waisher Seattle, WA 98119-2029 Ph. (206) 285-8282 3012 16th Avenue West Friedman & Bruya, Inc. City, State, ZIP Lagueh WA 98027 Phone 15 38 - 1010 Email wwwibey 2 100 of the Project specific RLs? - Yes / No Address 1180 Now Maple St. Swike 810 Company TRC BZ-4-8-1:6 DI N. N.S.FEB 8248-2:6 B245W-S:5 110535 Sample ID Relinquished by: Received by: Keling uished by: Record ed/by: なべん  $\widetilde{\kappa}$ <u>کړ</u> ک ガ Lab ID SIGNATURE 10/27/21 Date Sampled ころ SAMPLE CHAIN OF CUSTODY Sampled J いいい Time REMARKS PROJECT NAME SAMPLERS (signature) Havek Bros 424198 Sample Type <u>5</u> Jessiga Solia # of Jars PRINT NAME NWTPH-Dx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED ME 10, VOCs EPA 8260 PAHs EPA 8270 PCBs EPA 8082 Samples received at COMPANY · As only メ  $\checkmark$ Page # \_ S \_\_\_ of \_ Z \_\_\_ TURNAROUND TIME Standard turnaround
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Rush charges authorized by: SAMPLE DISPOSAL

Archive samples Default: Dispose after 30 days □ Other\_ DATE 212 Notes 200 J 190 HMIL

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#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 1, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Brothers 424198, F&BI 110569

Dear Mr Weisberg:

Included are the results from the testing of material submitted on October 28, 2021 from the Haack Brothers 424198, F&BI 110569 project. There are 24 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Cynthia Moon, Jessica Soliz

TRC1101R.DOC

#### **ENVIRONMENTAL CHEMISTS**

#### CASE NARRATIVE

This case narrative encompasses samples received on October 28, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Brothers 424198, F&BI 110569 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
110569-01	B11SW-N:3
110569-02	B11SW-E:3
110569-03	B11SW-S:3
110569-04	B11SW-W:3
110569-05	B11B-1:4
110569-06	B11B-2:4
110569-07	B56SW-N:3
110569-08	B56SW-E:3
110569-09	B56SW-S:3
110569-10	B56SW-W:3
110569-11	B56B-1:4
110569-12	B56B-2:4
110569-13	B21SW-N:3
110569-14	B21SW-E:3
110569-15	B21SW-S:3
110569-16	B21SW-W:3
110569-17	B21B-1:4
110569-18	B21B-2:4

All quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11SW-N:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-01

 Date Analyzed:
 10/29/21
 Data File:
 110569-01.037

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 4.94

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11SW-E:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-02

 Date Analyzed:
 10/29/21
 Data File:
 110569-02.038

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 5.99

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11SW-S:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-03

 Date Analyzed:
 10/29/21
 Data File:
 110569-03.039

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 5.26

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11SW-W:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-04

 Date Analyzed:
 10/29/21
 Data File:
 110569-04.040

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 9.49

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11B-1:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-05

 Date Analyzed:
 10/29/21
 Data File:
 110569-05.041

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 9.30

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B11B-2:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-06

 Date Analyzed:
 10/29/21
 Data File:
 110569-06.042

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 6.84

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW-N:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-07

 Date Analyzed:
 10/29/21
 Data File:
 110569-07.043

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 26.3

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW-E:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-08

 Date Analyzed:
 10/29/21
 Data File:
 110569-08.044

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.7

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW-S:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-09

 Date Analyzed:
 10/29/21
 Data File:
 110569-09.045

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.73

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW-W:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-10

 Date Analyzed:
 10/29/21
 Data File:
 110569-10.046

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B56B-1:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-11

 Date Analyzed:
 10/29/21
 Data File:
 110569-11.051

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.23

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B56B-2:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-12

 Date Analyzed:
 10/29/21
 Data File:
 110569-12.052

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 15.4

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B21SW-N:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-13

 Date Analyzed:
 10/29/21
 Data File:
 110569-13.060

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 20.0 Lead 202

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B21SW-E:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-14

 Date Analyzed:
 10/29/21
 Data File:
 110569-14.053

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 26.6 Lead 92.5

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B21SW-S:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-15

 Date Analyzed:
 10/29/21
 Data File:
 110569-15.054

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 23.8 Lead 66.2

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B21SW-W:3 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-16

 Date Analyzed:
 10/29/21
 Data File:
 110569-16.055

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 17.3 Lead 149

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B21B-1:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-17

 Date Analyzed:
 10/29/21
 Data File:
 110569-17.056

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.09 Lead 4.88

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B21B-2:4 Client: TRC Environmental Date Received: 10/28/21 Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 110569-18

 Date Analyzed:
 10/29/21
 Data File:
 110569-18.057

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 12.4 Lead 12.6

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110569

 Date Extracted:
 10/29/21
 Lab ID:
 I1-694 mb2

 Date Analyzed:
 10/29/21
 Data File:
 I1-694 mb2.033

Matrix: Soil Instrument: ICPMS2
Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Lead <1

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110569

Date Extracted: 10/29/21 Lab ID: I1-697 mb
Date Analyzed: 10/29/21 Data File: I1-697 mb.049
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Lead <1

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/01/21 Date Received: 10/28/21

Project: Haack Brothers 424198, F&BI 110569

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110535-21 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	85	85	75-125	0
Lead	mg/kg (ppm)	50	<5	94	90	75 - 125	4

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	88	80-120
Lead	mg/kg (ppm)	50	94	80-120

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/01/21 Date Received: 10/28/21

Project: Haack Brothers 424198, F&BI 110569

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110569-13 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	14.2	94	81	75-125	15
Lead	mg/kg (ppm)	50	148	$212 \mathrm{b}$	154 b	75 - 125	$32 \mathrm{b}$

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Lead	mg/kg (ppm)	50	99	80-120

#### **ENVIRONMENTAL CHEMISTS**

### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Phone 425-395 OND Email Company City, State, ZIP\_\_ Address I'SO NO MODE ST. SWIFE Company\_ Report To 1056 ころい EN PASSONIA Q ();

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature) Project specific RLs? - Yes / No REMARKS PROJECT NAME HARLY BOTHERS Z Z Z INVOICE TO PO#

☐ Archive samples
☐ Other\_\_\_\_\_ ☐ Standard turnaround ☐ Standard turnaround Rush charges authorized by: Page # TURNAROUND TIME SAMPLE DISPOSAL BIY

Default: Dispose after 30 days

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Ph. (206) 285-8282

Received by:

Seattle, WA 98119-2029

Relinquished by:

3012 16th Avenue West

Received by:

10/28

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10/28

730

Samples received at

å

Phone 125-315-000 Email City, State, ZIP 19500 Market Address 1180 NINI Maple St., Suite Report To\_\_\_ Company\_ **み**り Single House NA PROL

REMARKS TARA RELAK 951 12H INVOICE TO PO#

Project specific RLs? - Yes / No

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Page # Rush charges authorized by: □ Standard turnaround TURNAROUND TIME

Default: Dispose after 30 days ☐ Archive samples SAMPLE DISPOSAL

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#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 1, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Brothers 424198, F&BI 110599

Dear Mr Weisberg:

Included are the results from the testing of material submitted on October 29, 2021 from the Haack Brothers 424198, F&BI 110599 project. There are 22 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Cynthia Moon, Jessica Soliz

TRC1101R.DOC

### **ENVIRONMENTAL CHEMISTS**

### CASE NARRATIVE

This case narrative encompasses samples received on October 29, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Brothers 424198, F&BI 110599 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
110599-01	B25SW-N:2.5
110599-02	B25SW-S:2.5
110599-03	B25SW-W:2.5
110599-04	B25B-1:3.5
110599-05	B25B-2:3.5
110599-06	B15SW-N:3
110599-07	B15SW-S:3
110599-08	B15SW-W:3
110599-09	B15B-1:4
110599-10	B15B-2:4
110599-11	B19SW-N:3
110599-12	B19SW-E:3
110599-13	B19SW-S:3
110599-14	B19SW-W:3
110599-15	B19B-1:4
110599-16	B19B-2:4
110599-17	B1B-2:2.5
110599-18	B14B-1:5

All quality control requirements were acceptable.

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25SW-N:2.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-01

 Date Analyzed:
 11/01/21
 Data File:
 110599-01.049

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.86

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25SW-S:2.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-02

 Date Analyzed:
 11/01/21
 Data File:
 110599-02.042

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 14.1

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25SW-W:2.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-03

 Date Analyzed:
 11/01/21
 Data File:
 110599-03.043

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.52

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25B-1:3.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-04

 Date Analyzed:
 11/01/21
 Data File:
 110599-04.044

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 11.9

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25B-2:3.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-05

 Date Analyzed:
 11/01/21
 Data File:
 110599-05.045

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 24.8

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B15SW-N:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-06

 Date Analyzed:
 11/01/21
 Data File:
 110599-06.055

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.97 Lead 4.26

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B15SW-S:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-07

 Date Analyzed:
 11/01/21
 Data File:
 110599-07.056

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.94 Lead 21.5

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B15SW-W:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-08

 Date Analyzed:
 11/01/21
 Data File:
 110599-08.057

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 18.1 Lead 119

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B15B-1:4 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-09

 Date Analyzed:
 11/01/21
 Data File:
 110599-09.058

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 17.5 Lead 37.0

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B15B-2:4 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-10

 Date Analyzed:
 11/01/21
 Data File:
 110599-10.059

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 22.0 Lead 52.2

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW-N:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-11

 Date Analyzed:
 11/01/21
 Data File:
 110599-11.060

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 110

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW-E:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-12

 Date Analyzed:
 11/01/21
 Data File:
 110599-12.061

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 19.6

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW-S:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-13

 Date Analyzed:
 11/01/21
 Data File:
 110599-13.064

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.39

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW-W:3 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-14

 Date Analyzed:
 11/01/21
 Data File:
 110599-14.065

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 18.9

### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B19B-1:4 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-15

 Date Analyzed:
 11/01/21
 Data File:
 110599-15.066

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.48

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B19B-2:4 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-16

 Date Analyzed:
 11/01/21
 Data File:
 110599-16.067

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 4.20

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B1B-2:2.5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-17

 Date Analyzed:
 11/01/21
 Data File:
 110599-17.068

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 10.1

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: B14B-1:5 Client: TRC Environmental Date Received: 10/29/21 Project: 424198, F&BI 110599

 Date Extracted:
 11/01/21
 Lab ID:
 110599-18

 Date Analyzed:
 11/01/21
 Data File:
 110599-18.069

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic 3.56

#### **ENVIRONMENTAL CHEMISTS**

## Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental Date Received: Not Applicable Project: 424198, F&BI 110599

Date Extracted: 11/01/21 Lab ID: I1-700 mb
Date Analyzed: 11/01/21 Data File: I1-700 mb.040
Matrix: Soil Instrument: ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Lead <1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/01/21 Date Received: 10/29/21

Project: Haack Brothers 424198, F&BI 110599

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110599-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	4.04	86	91	75-125	6
Lead	mg/kg (ppm)	50	10.0	91	90	75 - 125	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Lead	mg/kg (ppm)	50	95	80-120

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- ${\rm d}$  The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Company TR C

Address 1140 NIN Maple St, Shith 310

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SAMPLE DISPOSAL

Rush charges authorized by:

INVOICE TO

☐ Archive samples

□ Other

	Default: Dispose after 30 days
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Ph. (206) 285-8282	Seattle, WA 98119-2029	3012 16th Avenue West	Friedman & Bruya, Inc.		B15B-2:4	B15B-1:4	B155W-W: 3	B155N-5:3	B155W-N:3	8258-2:3.5	8258-1:3.5	6255W-W:2.5	8255N-5:2.5	B255N-N:2.5	Sample ID	
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		1700	135	TIME												

Report To Wisky We's beng Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Phone 425-395-00 DEmail companies. com Company\_TRC City, State, ZIP ISS aguah WA Address 1180 NN MURKS+. SNIFC B19B-2:4 B/98-1:4 B14B-1:5 B1B-2:25 B)95N-1N-3 8)95N-N:3 B1950-6:3 6195W-5:3 Sample ID Received by: Relinquished by: Relinquished by: Receive by: Lab ID J  $\overline{\sim}$ Ī  $\leq$ σ Ī SIGNATURE 12/12/01 Sampled <u>や</u> SAMPLE CHAIN OF CUSTODY 1455 154 1456 (453 1530 1454 145Z 1520 Sampled SAMPLERS (signature) on Time Project specific RLs? - Yes / No REMARKS PROJECT NAME Horse Brothers 8611Pan Soil Sample Type Jessica solic Jars # of PRINT NAME NWTPH-Dx NWTPH-Gx NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 PAHs EPA 8270 PCBs EPA 8082 Samples received at \_ COMPANY Till Be K. X. X X X K As only X  $\prec$ Pb only □ Standard turnaround

por 1547 ☐ Archive samples Rush charges authorized by: Default: Dispose after 30 days TURNAROUND TIME SAMPLE DISPOSAL 10/26/21 DATE 6 Notes いのに HMIL り一下

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 9, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Bros 424198, F&BI 111021

Dear Mr Weisberg:

Included is the amended report from the testing of material submitted on November 2, 2021 from the Haack Bros 424198, F&BI 111021 project. Sample ID B19SW2-S:3 has been corrected to B21SW2-S:3 to reflect the ID listed on the chain of custody.

We apologize for the inconvenience and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC1108R.DOC

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 8, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Bros 424198, F&BI 111021

Dear Mr Weisberg:

Included are the results from the testing of material submitted on November 2, 2021 from the Haack Bros 424198, F&BI 111021 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Cynthia Moon TRC1108R.DOC

#### **ENVIRONMENTAL CHEMISTS**

## CASE NARRATIVE

This case narrative encompasses samples received on November 2, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Bros 424198, F&BI 111021 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
111021-01	B15B-2:5
111021-02	B19SW2-N:3
111021-03	B21SW2-S:3
111021-04	B21SW2-N:3
111021-05	B25B-2:4.5
111021-06	B56SW2-N:3

All quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B15B-2:5 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

mg/kg (ppm) Dry Weight Operator:

Analyte: Concentration mg/kg (ppm)

Arsenic 7.39

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW2-N:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.69

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B21SW2-S:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25B-2:4.5 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW2-N:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

 Date Extracted:
 11/03/21
 Lab ID:
 111021-06

 Date Analyzed:
 11/03/21
 Data File:
 111021-06.066

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.08

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 111021

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/08/21 Date Received: 11/02/21

Project: Haack Bros 424198, F&BI 111021

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110601-02 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	76	79	75-125	4

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

À Report To Mesky Weiber Company\_TRC Seattle, WA 98119-2029 3012 16th Avenue West City, State, ZIP Issupuch WA 98027 Address 1180 NW haple St. Swite 310 Ph. (206) 285-8282 Friedman & Bruya, Inc. Phone 411-385 4510 Email Judes begg Husepack Project specific RLs? - Yes / No BS65W2-N:3 B25B-2:4.5 BZ/6WZ-N:3 1210112-8:3 B195W2-N:3 のころうごろ Sample ID Relinquished by: Relinquished by: Received by: Received by: 90  $\frac{2}{6}$ 9 04 20 Lab ID SIGNATURE 2/2 Date Sampled SAMPLE CHAIN OF CUSTODY 2501 1120 160 Sampled 1025 1100 REMARKS PROJECT NAME SAMPLERS (signature) Hada Bol かりだけ 585 Sample Туре # of Jars PRINT NAME NWTPH-Dx NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 # 0q PAHs EPA 8270 PCBs EPA 8082 COMPANY Samples received at 14 oc SAMPLE DISPOSAL /- ユーユ ☐ Standard turnaround Default: Dispose after 30 days Rush charges authorized by: TURNAROUND TIME DATE E S Notes TIME

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

November 8, 2021

Wesley Weisberg , Project Manager TRC Environmental 1180 NW Maple St, Suite 310 Issaquah, WA 98027

RE: Haack Bros 424198, F&BI 111021

Dear Mr Weisberg:

Included are the results from the testing of material submitted on November 2, 2021 from the Haack Bros 424198, F&BI 111021 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c. Cynthia N

c: Cynthia Moon

#### **ENVIRONMENTAL CHEMISTS**

## CASE NARRATIVE

This case narrative encompasses samples received on November 2, 2021 by Friedman & Bruya, Inc. from the TRC Environmental Haack Bros 424198, F&BI 111021 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	TRC Environmental
111021-01	B15B-2:5
111021-02	B19SW2-N:3
111021-03	B19SW2-S:3
111021-04	B21SW2-N:3
111021-05	B25B-2:4.5
111021-06	B56SW2-N:3

All quality control requirements were acceptable.

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B15B-2:5 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

mg/kg (ppm) Dry Weight Operator:

Analyte: Concentration mg/kg (ppm)

Arsenic 7.39

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW2-N:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 6.69

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B19SW2-S:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B25B-2:4.5 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

Matrix: Soil Instrument: ICPMS2 Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <5

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: B56SW2-N:3 Client: TRC Environmental

Date Received: 11/02/21 Project: Haack Bros 424198, F&BI 111021

 Date Extracted:
 11/03/21
 Lab ID:
 111021-06

 Date Analyzed:
 11/03/21
 Data File:
 111021-06.066

 Matrix:
 Soil
 Instrument:
 ICPMS2

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.08

#### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 6020B

Client ID: Method Blank Client: TRC Environmental

Date Received: Not Applicable Project: Haack Bros 424198, F&BI 111021

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Arsenic <1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/08/21 Date Received: 11/02/21

Project: Haack Bros 424198, F&BI 111021

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 110601-02 x5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	<5	76	79	75-125	4

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120

#### **ENVIRONMENTAL CHEMISTS**

#### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

À Report To Mesky Weiber Company\_TRC Seattle, WA 98119-2029 3012 16th Avenue West City, State, ZIP Issupuch WA 98027 Address 1180 NW haple St. Swite 310 Ph. (206) 285-8282 Friedman & Bruya, Inc. Phone 411-385 4510 Email Judes begg Husepack Project specific RLs? - Yes / No BS65W2-N:3 B25B-2:4.5 BZ/6WZ-N:3 1210112-8:3 B195W2-N:3 のころうごろ Sample ID Relinquished by: Relinquished by: Received by: Received by: 90  $\frac{2}{6}$ 9 04 20 Lab ID SIGNATURE 2/2 Date Sampled SAMPLE CHAIN OF CUSTODY 2501 1120 160 Sampled 1025 1100 REMARKS PROJECT NAME SAMPLERS (signature) Hada Bol かりだけ 585 Sample Туре # of Jars PRINT NAME NWTPH-Dx NWTPH-Gx BTEX EPA 8021 NWTPH-HCID INVOICE TO ANALYSES REQUESTED VOCs EPA 8260 # 0q PAHs EPA 8270 PCBs EPA 8082 COMPANY Samples received at 14 oc SAMPLE DISPOSAL /- ユーユ ☐ Standard turnaround Default: Dispose after 30 days Rush charges authorized by: TURNAROUND TIME DATE E S Notes TIME

Attachment F Bore Logs

	TRO		во	RING IE	): B-1		
	ADDRESS		CLIE	INT:			
113 F	Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
	NG CONTRA	ACTOR:		JECT #: <b>198</b>			
	ade ING EQUIPM	IENT.	DAT				
	Track Rig			<sup>∟.</sup> 5/2021			
	ING METHOI		_		ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
Direct Push Technology  LOGGED BY:  W. Weisberg			measure		Hydrated bento	nite	
		1	AL DEPTH:		BOREHOLE SIZE:		
	/eisberg		10'	bgs		2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; organics; no odor; not fill		0.0	B-1:0.5		
1 -	<u>- 1411   1644   1645   1</u>	SILT; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor	_				
3 -	- - - ML		60	0.0	B-1:2		
4 - 5 - 6 -	- - - - - - -			0.0			
7 -		POORLY-GRADED SAND WITH SILT; reddish brown; dry; medium stiff; no odor  SANDY SILT WITH GRAVEL; reddish brown; dry; hard; no odor	90				
8 -	- ML -			0.0			
10 -	-			0.0	B-1:10		
1() -		End of Borehole			•		End of

NOTES: No fill present

→ TRC		BORING ID: B-2							
SITE A				CLIENT:					
413 Rockefeller Ave, Everett, WA			Haack Brothers						
		NTRA	ACTOR:	PROJECT #:					
0.000.00			424198						
				DAT					
7822				_	5/2021	- A O E E I E I A A A O I	DE001440010111	IO MATERIAL	
Diroc				GROUND SURFACE ELEV. FT AMSL:			DECOMMISSIONING MATERIAL:		
0.5			Not measured  TOTAL DEPTH:			Hydrated bentonite  BOREHOLE SIZE:			
W. W				10' bgs			2.25"		
Depth (feet)	US	CS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes	
0	SP-	М	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff organics; no odor; not fill		0.0	B-2:0.5			
1 - 2 - 3 -	<u> </u>	1 1 1 1 1 1 1 1 1	SILT WITH SAND; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor	90		B-2:2			
5 - 6 -					0.0				
7 - 8 - 9 -			SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	90	0.0				
10					0.0	B2:10			
10 -			End of Borehole					End of Borehole	
NO			III procept					POLETIONS	

NOTES: No fill present

SITE ADDRESS 413 Rockefeller Ave, Everett, WA DRILLING CONTRACTOR: Cascade			BORING ID: B-3  CLIENT: Haack Brothers  PROJECT #: 424198  DATE:														
									DRILLING EQUIPMENT:								
									822	Trac	k Riç	g	1/25	5/2021			
									RILL	ING M	ETHO	DD:	GRC	OUND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
									Direct Push Technology			Not measured			Hydrated bentonite		
	ED BY									TOTAL DEPTH:			BOREHOLE SIZE:				
	/eisb	erg	T	10' bgs			2.25"										
Depth (feet)	US	SCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes									
0			POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff organics; no odor; not fill SILT WITH SAND; light reddish brown; dry; very		0.0	B-3:0.5											
2 -	-		stiff; medium plasticity; low dilatency; no odor	90	0.0	B-3:2											
4 -	- M	       			0.0												
6 - 7 - 8 -	-		SANDY SILT WITH GRAVEL; reddish brown; dry;	80													
9 -	- - - - - - - - -		stiff; no odor		0.0	B-3:10											
10 -	11 11 11 11	11 11 11 11	End of Borehole	1	0.0	D-3.1U		End of									

NOTES: No fill present

<b>♦</b> TRC			BORING ID: B-4						
SITE ADDRESS 413 Rockefeller Ave, Everett, WA  DRILLING CONTRACTOR:  Cascade  DRILLING EQUIPMENT: 7822 Track Rig			CLIENT:						
			Haa	ck Broth	ers				
			PROJECT #: 424198						
			DATE: 1/25/2021						
	NG ME		-	GROUND SURFACE ELEV. FT AMSL:			DECOMMISSIONING MATERIAL:		
Direct Push Technology LOGGED BY:			Not	measure	ed	Hydrated bentonite			
			TOTAL DEPTH:			BOREHOLE SIZE:			
	eisbe	rg	T	10' bgs			2.25"		
Depth (feet)	USC	CS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes	
0 -	SP :	<b>ВМ</b>	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics		0.0	B-4:0.3 B-4:0.5			
2	MINING MINING		SILT WITH SAND; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor  6'-8': moist	90	0.0	B-4:2.5			
5 - - 6 - - 7 - - 8 -				80					
9 – -			SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor						
10 -			End of Borehole		0.0	B-4:10		End of	

*)	T	2	C		ВС	RING ID	: B-5		
SITE A					CLIE	ENT:			
113 R	Rock	efe	lle	r Ave, Everett, WA	Haa	ack Brothe	ers		
		TNC	RA	CTOR:		JECT#:			
Casc						198			
RILLI					DAT				
822						5/2021	A OF FLEW ET ANACI	DECOMMUSCIONUM	CMATERIAL
)RILLI <b>Dir</b> oc						t <b>measure</b>	ACE ELEV. FT AMSL:	DECOMMISSIONIN	
.OGGI			16	chnology		AL DEPTH:	<u>u</u>	BOREHOLE SIZE:	nnte
	eisb		ı		10'	bas		2.25"	
Depth (feet)	US	scs		Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 -	<b>SP</b>	, <b>,</b> ,		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel			B-5:0.3		
1 - - 2 -	<u>-</u>		<u> </u>	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-5:1		
3 -	-			5'-8': moist	50	0.0	B-5:3		
5 - - 6 -	- - -	ЛL    				0.0			
7 -	- -				100				
8 - - 9 -	- - - - -	                		SANDY SILT WITH GRAVEL; reddish brown; dry stiff; no odor	;	0.0			
10						0.0	B-5:10		
10 -	шини	шШ	<b>_LLL</b> _	End of Borehole		5.0	2 0.10		End of

* TAC		ВС	RING IE	D: B-6					
SITE ADDRESS		CLIE							
	r Ave, Everett, WA		ck Broth	ers					
DRILLING CONTRA	CTOR:	PROJECT #: <b>424198</b>							
Cascade  DRILLING EQUIPM	IENT.								
7822 Track Rig		DATE: 1/25/2021							
DRILLING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	NG MATERIAL:			
Direct Push Te			measure		Hydrated bent				
LOGGED BY:			AL DEPTH:	· <del>-</del>	BOREHOLE SIZE:				
W. Weisberg		10'	bgs		2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
1 -	SANDY SILT WITH GRAVEL; grayish brown; dry; medium stiff; no odor; fill		0.0	B-6:0.5					
-		60	0.0	B-6:2					
4 <b>SP.SM</b>	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-6:4					
5 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0	B-6:6					
7 -		100							
9 -									
[[[[[[[]]]]			0.0	D 4.10					
10 —	End of Borehole		0.0	B-6:10		End of			
						Borehole			

•>	TRO		ВС	RING I	D: B-7					
SITE AD			CLIE	ENT:						
		r Ave, Everett, WA	Haack Brothers							
DRILLIN	G CONTRA	CTOR:	PROJECT #:							
Casca			424198							
	IG EQUIPM		DATE:							
	rack Rig			5/2021		1				
	IG METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
Direct LOGGE		chnology		Measure TAL DEPTH:		BOREHOLE SIZE:	onite			
W. We	eisberg		10'	bgs		2.25"				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 -		SANDY SILT WITH GRAVEL; grayish brown; dry; medium stiff; no odor; fill		0.0	B-7:0.5					
2 3 -	ML		60	0.0	B-7:2					
4 -	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0	B-7:4					
5 - - 6 - - 7 -	ML	6'-7': moist		0.0	B-7:6					
8 - 9 -	1716			0.0						
10		End of Borehole		0.0	B-7:10		End of Borehole			

* TRO		во	RING IE	D: B-8		
SITE ADDRESS		CLIE	NT:			
113 Rockefelle	er Ave, Everett, WA	Haa	ck Broth	ers		
RILLING CONTRA		PRO	JECT #:			
Cascade		424	198			
RILLING EQUIPM	IENT:	DAT	E:			
822 Track Rig	J	1/25	5/2021			
RILLING METHO	D:	GRC	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
irect Push Te	echnology	Not	measure	ed	Hydrated bento	onite
DGGED BY:			AL DEPTH:		BOREHOLE SIZE:	
/. Weisberg		10.	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; dry; medium stiff; no odor; fill		0.0	B-8:0.5		
2 - <b></b>	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	95	0.0	B-8:2		
3 HUNGHUM - 4 - -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor; minor sand			B-8:3		
5 -			0.0	B-8:5		
7 - 8		90				
9	SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor		0.0	D 0:10		
10 <del>-                                       </del>	End of Borehole		0.0	B-8:10		End of

•	Tr	20		ВС	RING II	D: B-9		
	DDRES			CLIE	NT:			
413 R	ocket	felle	er Ave, Everett, WA	Haa	ck Broth	ers		
RILLIN	IG COI	NTRA	ACTOR:	1	JECT #:			
Casc	ade			424	198			
ORILLI	NG EQ	UIPN	IENT:	DAT	E:			
822	Track	Rig	1	1/2!	5/2021			
	NG ME					ACE ELEV. FT AMSL:	DECOMMISSIONIN	
		n Te	echnology		measure		Hydrated bent	onite
	ED BY: <b>eisbe</b> i	rg		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
Depth (feet)	USC	:S	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 -	SP:	SIMI	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; fill		0.0	B-9:0.3		
1 -			SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor; minor sand		0.0	B-9:1		
2 3 4 5	МШ		5'–7': moist	60	0.0	B-9:3		
6 - 7 - 8 -				100				
9 -			SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor					
10 -			End of Borehole		0.0	B-9:10		End of

•	T	'n	20		ВС	RING I	): B-10				
SITE A	DDR	RES:	S		CLIE						
13 R	Rock	kef	elle	er Ave, Everett, WA	Haa	ack Broth	ers				
			TRA	ACTOR:	PROJECT #: <b>424198</b>						
asc			IID/	AFAIT.							
				MENT:	DAT						
822 RILLI						5/2021	ACE ELEV. FT AMSL:	DECOMMISSIONIN	IG MATERIAI ·		
				echnology		t measure		Hydrated bento			
OGGI				, cimeregy		AL DEPTH:		BOREHOLE SIZE:	511110		
/. W	eisl	oer	g	,	10'	bgs		2.25"			
Depth (feet)	U	ISC:	S	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes		
0	S	S	M	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor;		0.0	B-10:0.3				
1 - - 2 -				organics; some gravel  SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor; minor sand	50	0.0	B-10:1				
3 -		ML				0.0	B-10:3				
5 -											
6 -											
7 -					100						
8 -		ML		SANDY SILT WITH GRAVEL; reddish brown; dry stiff; no odor	,	0.0					
=	  -  -					0.0	B-10:10				
10 -	шШШ	шШШ	шШ	End of Borehole	1	0.0	D-10.10		End of		

## AUTOMATION STATE AND ST	•>	TAC		ВС	RING II	D: B-11		
DRILLING CONTRACTOR:  Cascade  DRILLING COUPMENT:  7822 Track Rig  DRILLING METHOD  DRILLING METHOD  DRILLING METHOD  DIVECT Push Technology  Not measured  TOTAL DEPTH  TOTAL DEPTH  BORFHOLE SIZE:  2.25"  Description  USCS name Color Musicure Density  Plusidicity Diletery, EPI description. Other  Total Depth  Sample Shoon Notes  Pip (oppn) Sample Shoon Notes  Sample Shoon Notes  Pip (oppn) Sample Shoon Notes  Sample Shoon Notes  SIT WITH GRAVEL grayish brown:  damp, medium siff: no odor:  Total Depth  BORFHOLE SIZE:  0.0 B-11:0.5  B-11:1  SAMPY SILT WITH GRAVEL grayish brown:  damp, medium siff: no odor:  SILT WITH SAMD: light reddish brown: damp; over y siff; medium plasticity, slow dilatency; no odor  Total Depth  BORFHOLE SIZE:  0.0 B-11:0.5  B-11:1  SAMPY SILT WITH GRAVEL reddish brown: damp; over y siff; medium plasticity, slow dilatency; no odor  Total Depth  BORHOLE SIZE:  0.0 B-11:0.5  B-11:1  SAMPY SILT WITH GRAVEL reddish brown: damp; over y siff; medium plasticity, slow dilatency; no odor  B-11:0.5  B-11:1  SAMPY SILT WITH GRAVEL reddish brown: day:  BORFHOLE SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-11:1  DRILLING SIZE:  0.0 B-11:0.5  B-				CLIE	ENT:			
Cascade  ORILLING EQUIPMENT:  DATE:  72822 Track Rig  DRILLING METHOD:  DRILLING METHOD:  DIRECT PUSh Technology  USCS  USCS  Description USCS name: Color: Moisture: Density: Plankidry, Dilatency: Erf discription: Other  ANDY SILT FINTE GRAVEL: prodish brown: damp: organics: some gravel  1 SPAND'S ILT WITH GRAVEL: reddish brown: day: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odox  8 ML  SANDY SILT WITH GRAVEL:	113 R	ockefelle	er Ave, Everett, WA	Haa	ack Broth	ers		
DRILLING EQUIPMENT:  7822 Track Rig  GROUND SURFACE ELEV. FT AMSL:  DECOMMISSIONING MATERIAL:  Not measured  TOTAL DEPTH:  BORNEHOLE SIZE:  O'Bgs  USCS  Description  USCS pamer: Color. Moisture: Density: Plasticity Distancy: Eff description Other  USCS pamer: Color. Moisture: Density: Plasticity Distancy: Eff description of the density of the densit	RILLIN	NG CONTRA	ACTOR:					
1/25/2021	Casca	ade		424	198			
Description USCS ame: Color Moisture Density. Plasticity Distency EV description USCS ame: Color Moisture Density. Plasticity Distency: EV description of the desired state of the property of the property of the property o	DRILLII	NG EQUIPN	ИENT:					
Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   Push Technology   Oracle   O	7822	Track Ric	)	1/2!	5/2021			
M. Weisberg  Description USCS name: Color: Moisture: Density: Plasticity: Dilatency: EPI description: Other  Amp: medium stift: no odor: fill  PROBLEM Companies and the stift: no odor: fill  PROBLEM Companies and the stift: no odor: fill  PROBLEM Companies and the stift: no odor: fill  PROBLEM Companies and the stift: no odor: fill  PROBLEM Companies and the stift: no odor: fill  B-11:0.5  B-11:1  SILT WITH SAND: light reddish brown: damp: very stift medium plasticity: slow dilatency: no odor  O								
N. Weisberg			echnology	_		ed		onite
0 ML SANDY SILT WITH GRAVEL: graysh brown: damp: medium silft, no odor: gravel organics. some gravel organics. Some gravel organics. Some gravel organics some gravel organics some gravel organics some gravel organics. Some gravel organics some gravel	N. We			10'	bgs			
0   ML   SANDY SILT WITH GRAVEL: graysh brown: damp; medium silft, no odor: organics; some gravel   0.0   B-11:0.5	Depth (feet)	USCS	USCS name; Color; Moisture; Density;	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
2 SILT WITH SAND: light reddish brown: damp: very stiff; medium plasticity; slow dilatency; no odor  3 - 0.0 B-11:3  4 - ML  5 - 0.0  ML  SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor  80  8 - ML  9 - 0.0	0		damp; medium stiff; no odor; fill			B-11·0 5		
1 - S S ANDY SILT WITH GRAVEL: reddish brown: damp: very stiff: medium plasticity: slow dilatency: no odor  3 - 0.0 B-11:3  5 - 0.0 B-11:3  SANDY SILT WITH GRAVEL: reddish brown: dry: stiff: no odor  8 - 0.0 D.0 D.0 D.0 D.0 D.0 D.0 D.0 D.0 D.0			reddish brown; damp; medium stiff; no odor;		0.0	5 11.0.0		
3 -		SP-SM	organics; some gravel			B-11:1		
4 -	2 -		very stiff; medium plasticity; slow dilatency; no	30				
5 -   ML	3 -				0.0	B-11:3		
To the state of th	4 -	ML						
SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor  8 - ML O.0	5 -				0.0			
8 - ML	6 -							
9 -	7 -							
	8 -	ML			0.0			
10	9 -							
End of Borehole End of	10				0.0	B-11:10		

•		i	30		ВС	ORING I	D: B-12		
SITE A	DD	RES	SS		CLII	ENT:			
413 R	oc	ke	felle	er Ave, Everett, WA	Ha	ack Broth	ers		
			NTRA	ACTOR:		OJECT #:			
Casc						1198			
DRILLI					DAT				
7822						5/2021		1	
ORILLI							ACE ELEV. FT AMSL:	DECOMMISSIONIN	
			h Te	echnology		t measure		Hydrated bent	onite
OGGE <b>N. W</b>			rg		10'	TAL DEPTH: bgs		BOREHOLE SIZE: <b>2.25"</b>	
Depth (feet)	ι	JSC	S	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		MI	- -     	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-12:0.5		
1 -	S	P.	M	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel			B-12:1		
2 -									
3 -				SILT WITH GRAVEL; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	60	0.0	B-12:3		
4 -				increased moisture		0.0			
5 -		  MI 		increased moisture		0.0			
6 -									
7 -					80	0.0			
8 -				SANDY SILT WITH GRAVEL; reddish brown; dry stiff; no odor					
9 -		IMI							
						0.0	D 10.10		
10 –	ШШ	Ш	11 11 11	LEnd of Borehole		0.0	B-12:10		End of

* TRO		во	RING I	D: B-13		
SITE ADDRESS		CLIE	NT:			
413 Rockefelle	r Ave, Everett, WA	Haa	ick Broth	ers		
ORILLING CONTRA	CTOR:		JECT #:			
Cascade		424	198			
DRILLING EQUIPM	IENT:	DAT				
7822 Track Rig	<u> </u>	1/26	5/2021			
DRILLING METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
Direct Push Te	chnology	_	measure	ed	Hydrated bento	onite
LOGGED BY: W. Weisberg		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-13:0.5		
	POORLY-GRADED SAND WITH SILT; dark	<b>-</b>	0.0	B-13:1.5		
2 -	reddish brown; damp; medium stiff; no odor; organics; some gravel			B-13:2		
3 - 444444444	SILT WITH SAND; light reddish brown; damp;	40				
4 - - 5 -	very stiff; medium plasticity; slow dilatency; no odor		0.0	B-13:4		
6 -						
-		100				
8 -						
´-						
10	End of Borehole		0.0	B-13:10		End of

<b>♦</b> TAC		ВО	RING IE	): B-14		
SITE ADDRESS		CLIE	ENT:			
413 Rockefelle	er Ave, Everett, WA	Haa	ack Broth	ers		
DRILLING CONTRA	ACTOR:		JECT#:			
Cascade			198			
DRILLING EQUIPN		DAT				
7822 Track Rig		_	6/2021	ACE ELEV ET AMEL	DECOMMUSCIONIA	IC MATERIAL.
DRILLING METHO  Direct Push Te			measure	ACE ELEV. FT AMSL:	DECOMMISSIONIN	
LOGGED BY:	cillology	_	AL DEPTH:	·u	BOREHOLE SIZE:	onite
W. Weisberg		10'	bas		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	_ 61	0.0	B-14:0.5		
2 -	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor;	<del></del>		B-14:2		
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-14:3		
5 -   ML -			0.0	B-14:5		
6 SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0			
_	SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	85				
8 -						
<sub>10</sub>	<u></u>		0.0	B-14:10		F4¢
	End of Borehole					End of Borehole

→ TRO		во	RING IE	D: B-15		
SITE ADDRESS		CLIE	ENT:			
413 Rockefelle	er Ave, Everett, WA	Haa	ck Broth	ers		
DRILLING CONTRA	ACTOR:		JECT#:			
Cascade			198			
DRILLING EQUIPM		DAT				
7822 Track Rig			5/2021	AOE ELEV ET ANGL	DECOMM MCCIONIIN	IC MATERIAL
DRILLING METHO  Direct Push Te			measure	ACE ELEV. FT AMSL:	DECOMMISSIONIN	
LOGGED BY:	cillology		AL DEPTH:	eu .	BOREHOLE SIZE:	onite
W. Weisberg		10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-15:0.5		
2 - - -	POORLY-GRADED SAND WITH SILT; dark	80		B-15:2		
3 - <b>sp.sw</b> .	reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-15:3		
- - 5 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-15:5		
6 -						
7 -		100				
8 -						
9 -			0.0	D 15.10		
10	End of Borehole		0.0	B-15:10		End of
	<del></del>					Borehole

•	TRO		во	RING ID	): B-16		
	DDRESS		CLIE	NT:			
413 R	Rockefelle	r Ave, Everett, WA	Haa	ck Brothe	ers		
RILLIN	NG CONTRA	ACTOR:	PRO	JECT #:			
Casc	ade		424	198			
DRILLI	NG EQUIPN	1ENT:	DAT	E:			
7822	Track Rig	I	1/26	6/2021			
RILLI	NG METHO	D:	GRO	UND SURFA	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
)irec	t Push Te	echnology	Not	measure	d	Hydrated bento	nite
OGGI	ED BY:		TOT	AL DEPTH:		BOREHOLE SIZE:	
	eisberg		10'	bgs		2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	. ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-16:0.5		
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	70	0.0	B-16:2		
4 -	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-16:2.5		
6 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
8 -	ML		90				
_				0.0	B016:10		
10 -		End of Borehole		5.0	2010.10		End of Borehole

<b>⇔</b> TR	C	ВС	RING I	D: B-17					
SITE ADDRESS		CLIE	ENT:						
413 Rockefe	eller Ave, Everett, WA	Haa	ack Broth	ers					
DRILLING CON	FRACTOR:	PROJECT #:							
Cascade			1198						
DRILLING EQU		DAT							
7822 Track		_	6/2021		1				
DRILLING MET				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
LOGGED BY:	Technology	_	t measure AL DEPTH:		Hydrated bente BOREHOLE SIZE:	onite			
W. Weisberg			bgs		2.25"				
		20	- <b>9</b> -						
Depth (feet)	Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0          -   1 -    ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-17:0.5					
2 -	POORLY-GRADED SAND WITH SILT; dark	80		B-17:2					
3 –	reddish brown; damp; medium stiff; no odor; organics; some gravel  SILTY SAND; dark reddish brown; damp; soft;		0.0	B-17:3					
4 -	mostly fine sand and silt; no odor								
5 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-17:5					
6 -									
7 -               ML 		100	0.0						
8 -									
9 -									
			0.0	B-17:10					
10	End of Borehole	•				End of Borehole			

•	TRO		ВС	RING I	D: B-18					
	DDRESS		CLIE	ENT:						
413 R	Rockefelle	r Ave, Everett, WA	Haa	ack Broth	ers					
DRILLI	NG CONTRA	CTOR:	PROJECT #:							
Casc	ade		424198							
	NG EQUIPM		DAT							
	Track Rig			6/2021		1				
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
		chnology		t measure		Hydrated bent	onite			
LOGGI W. W	eisberg			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"				
			)							
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1- -	. ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-18:0.5					
2 - - 3 - - 4 -	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	80	0.0	B-18:1.8 B-18:2					
- 5 -	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-18:4.2					
6 7 8 9	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	70	0.0						
10 -		End of Borehole		0.0	B-18:10		End of			
		ETIU OF BUTETIONE					Borehole			

→ TRO		ВО	RING II	D: B-19		
SITE ADDRESS		CLIE				
	er Ave, Everett, WA		ck Broth	ers		_
DRILLING CONTRA	ACTOR:		JECT #: 1 <b>98</b>			
Cascade  DRILLING EQUIPN	AFNIT:	DAT				
7822 Track Rig			<sup>E.</sup> 6/2021			
DRILLING METHO	·			ACE ELEV. FT AMSL:	DECOMMISSIONIN	IG MATERIAL:
Direct Push Te			measure		Hydrated bento	onite
LOGGED BY:			AL DEPTH:		BOREHOLE SIZE:	
W. Weisberg	T	10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0    ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-19:0.5		
	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel			B-19:1		
				D-17.1		
2 - 1			0.0			
ISP-SM		60				
				B-19:3		
4 —						
	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no	+ $ $				
5 -	odor		0.0			
-						
6 -						
7 -						
/		70				
8 -						
9 -						
10 111111111111111111111111111111111111	End of Borehole		0.0	B-19:10		End of
						Borehole

*	TRO		ВО	RING I	D: B-20		
	DDRESS		CLIE	NT:			
413 R	Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
RILLIN	NG CONTRA	ACTOR:		JECT #:			
Casc			424				
	NG EQUIPN		DAT				
	Track Ric		_	5/2021		1	
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
		echnology		measure AL DEPTH:	ed	BOREHOLE SIZE:	onite
V. W	OGGED BY: 7. Weisberg		10'	bgs		2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
_		POORLY-GRADED SAND WITH SILT; dark	7	0.0	B-20:0.5		
1 -		reddish brown; damp; medium stiff; no odor; organics; some gravel SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-20:1		
2 3 4 5	ML		50	0.0	B-20:3		
- 6 - 7 - - 8 -			70				
9 -	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
10 -		End of Borehole		0.0	B-20:10		End of

→ TRC		во	RING ID	): B-21		
SITE ADDRESS		CLIE	NT:			
413 Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
RILLING CONTRA		PRO	JECT #:			
Cascade		424	198			
RILLING EQUIPM	IENT:	DAT	E:			
822 Track Rig	l	1/26	6/2021			
RILLING METHO	D:	GRO	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
irect Push Te	chnology	Not	measure	d	Hydrated bento	onite
OGGED BY:			AL DEPTH:		BOREHOLE SIZE:	
V. Weisberg		10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-21:0.5		
2	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	90		B-21:2		
3 - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0	B-21:3		
5 -			0.0	B-21:5		
7 -		100	0.0			
9 - ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor			D 21.10		
10	End of Borehole		0.0	B-21:10		End of

> TAC		BOI	RING ID	): B-22				
SITE ADDRESS		CLIE	NT:					
113 Rockefelle	er Ave, Everett, WA	Haack Brothers						
RILLING CONTRA	ACTOR:	PROJECT #:						
Cascade		4241						
RILLING EQUIPA		DATE						
822 Track Ric			/2021		l			
RILLING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONING			
Direct Push Te	ecnnology		measure	<u>a</u>	Hydrated bento BOREHOLE SIZE:	nite		
N. Weisberg		10' k			2.25"			
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes		
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-22:0.5				
2				B-22:1.5				
- <b>SP-SM</b>	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel; charred wood		0.0	B-22:2.5				
4 - SM 5 -	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-22:4				
6	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_	0.0					
8 -			0.0					
10	SANDY SILT; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor  End of Borehole	_	0.0	B-22:10		End of		

•>	TRO		ВО	RING I	D: B-23					
	DDRESS		CLIENT:							
413 R	ockefelle	r Ave, Everett, WA	Haa	ack Broth	ers					
	IG CONTRA	ACTOR:	PROJECT #:							
Casca				198						
	NG EQUIPM		DAT							
	Track Rig			6/2021		15500111100101111				
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
		echnology		Measure AL DEPTH:	ea	BOREHOLE SIZE:	onite			
LOGGED BY: W. Weisberg			10'	bgs		2.25"				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 -	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-23:0.5					
-		POORLY-GRADED SAND WITH SILT; dark	-		B-23:1.5					
2 -		reddish brown; damp; medium stiff; no odor; organics; some gravel, burnt wood and brick debris		0.0	B-23:2					
3 -	SP-SW		60							
4 -					B-23:4					
6 -		SILT WITH SAND; light reddish brown; damp;		0.0						
- 7 -		very stiff; medium plasticity; slow dilatency; no odor								
-			70							
8 -	ML									
9 – –										
10				0.0	B-23:10					
10 -		End of Borehole	_,1				End of Borehole			

SITE ADDRESS  413 ROCKefeller Ave, Everett, WA  DBRILLING CONTRACTOR: Cascade  DRILLING MCTH-IOD: TRACE RIG  DRILLING MCTH-IOD: Direct Push Technology  USCS  USCS  Description USCS name: Color Moisture Density: Plausicity District, Per description: Clother  Amp: medium stiff: no odor: fill  Direct Push Technology  USCS Description USCS name: Color Moisture Density: Plausicity District, Per Description: Clother  Amp: medium stiff: no odor: fill  Description  Description USCS name: Color Moisture Density: Plausicity District, Per Description: Clother  Direct Push Technology  USCS Description USCS name: Color Moisture Density: Plausicity District, Per Description: Clother Direct Push Technology  USCS  Description USCS name: Color Moisture Density: Plausicity District, Per Description: Clother Direct Push Technology  USCS  Description USCS name: Color Moisture Density: Plausicity District, Per Description: Clother Direct Push Technology  USCS  Description USCS name: Color Moisture  Description Des	<b>⇔</b> T	RC	•	во	RING IE	D: B-24		
DRILLING CONTRACTOR: Cascade DRILLING ECUIPMENT: 7822 Track Rig DRILLING MCTHOD. DRICE PROPERTY Technology DIFFECT PROPERTY TECHNOLOGY Not measured Hydrated bentonite BOREHOLE SIZE: 1.0° logs USCS DESCRIPTION USCS name: Color: Mosture: Density: BOREHOLE SIZE: DESCRIPTION USCS name: Color: Mosture: Density: BOREHOLE SIZE: DESCRIPTION USCS name: Color: Mosture: Density: BOREHOLE SIZE: DESCRIPTION USCS Name: Density: Density: Density: Density: Density: Density: Density:				CLIE	INT:			
Cascade  DRILING FOURMENT:  7822 Track Rig  DRILLING METHOD:  Direct Push Technology  DISCS DESCRIPTION  USCS DESCRIPTION  SAMDY SILT WITH GRAVEL: grayish brown: damp: organics: some gravel  10	413 Rock	efelle	r Ave, Everett, WA	Haa	ck Broth	ers		
DRILLING EQUIPMENT: 7822 Track Rig  DRILLING METHOD: DriceC Push Technology LOGGED BY: W. Weisberg  Description USCS USCS name: Color: Moleture: Density: Plasticity Dilatency: EPI description: Other  SANDY SILT WITH GRAVEL: grayish brown: damp: medium stiff: no odor; fill  A - SPSW charted wood and brick debris  5-6: increased moleture  8 - ML  Not measured Hydrated bentonite BOREHOLE SIZE: 2.25"  Description O	1	ONTRA	CTOR:					
Table   Tabl								
DRILLING METHOD.  Direct Push Technology  LOGGED BY:  W. Weisberg  Description USCS Descrip								
Direct Push Technology				_		4.05 51 51/ 57 4MOI	DE0014140010141	10.144.TEDIAL
LOGGED BY:   W. Weisberg   Description   USCS name: Color: Moisture: Density: Plasticity: Dilatency: EPI description odor:   Plasticity: Dilatency: EPI description of the modern of t								
W. Weisberg USCS Description USCS Clor: Moisture: Density: Plasticity: Dilatency; EPI description Other  Sample Sheen Notes  Sheen Notes  Sheen Notes  Sheen Notes  PID (ppm)  Sample Sheen Notes  Sheen			cnnology	_		ea		onite
Description USCS Description USCS name: Color: Moisture: Density: Plasticity: Dilatency: EPP description; Other damp: medium stiff: no odor; fill  SANDY SILT WITH GRAVEL: grayish brown: damp: medium stiff: no odor; fill  POORLY-GRADED SAND WITH SILT: dark reddish brown: damp: medium stiff: no odor; organics: some gravel  Charred wood and brick debris  5 - Charred wood and brick debris  SILT WITH SAND light reddish brown: damp: very stiff; medium plasticity: slow dilatency; no odor  ML  ML  Notes  PID (ppm)  Sample Sheen Notes  Notes  PID (ppm)  B-24:0.5  0.0  B-24:0.5				10'				
SANDY SILT WITH GRAVEL: grayIsh brown: damp: medium stiff; no odor; fill  1 - MAL  2 - B-24:2  B-24:2  75  Grayanics: some gravel  4 - SPSM: charred wood and brick debris  5 - 6': increased moisture  5 - 6': increased moisture  SILT WITH SAND: light reddish brown: damp: very stiff; medium plasticity; slow dilatency; no odor  7 - MAL  8 - MAL	l <del></del>			Sir	- <b>J</b> -			
damp; medium stiff; no odor; fill  1 - ML  2 - B-24:2  POORLY-GRADED SAND WITH SILT; dank reddish brown; damp; medium stiff; no odor; organics; some gravel  4 - B-3 - Charred wood and brick debris  5 - Charred wood and brick debris  SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  7 - ML  ML  NO  B-24:2  75  0.0  B-24:3		scs	USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recov		Sample	Sheen	Notes
POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium sliff; no odor; organics; some gravel  4 - BPSM; charred wood and brick debris  5 - C: increased moisture  100  8 - ML  100	-	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-24:0.5		
organics; some gravel  charred wood and brick debris  charred wood and brick debris  5'-6': increased moisture  0.0  B-24: 5  5'-6': increased moisture  0.0  B-24: 5  0.0  B-24: 5	2 -		POORLY-GRADED SAND WITH SILT; dark	<del> 7</del> 5		B-24:2		
5 - 5 - 5 - 5 - 5 - 6 - increased moisture  6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 - increased moisture  7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	3 - 1111 - 1111		organics; some gravel		0.0	B-24:3		
SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  7 -		SM						
7 -					0.0	B-24: 5		
	-		very stiff; medium plasticity; slow dilatency; no		0.0			
		       		100	0.0			
	8 -							
SANDY SILT; light redaish brown; damp; very	9	/	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10   0.0   B-24:10   End of Borehole   End of Bo	10 🕮		End of Parabala		0.0	B-24:10		End of

	TRO	5.	ВС	ORING IE	D: B-25					
	DDRESS		CLIF	ENT:						
		er Ave, Everett, WA		Haack Brothers						
	NG CONTR			PROJECT #:						
Casc	ade		424198							
DRILLI	DRILLING EQUIPMENT:			E:						
7822	Track Ri	9	1/2	6/2021						
	ING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
		echnology		t measure		Hydrated bent	onite			
1	ED BY: ' <b>eisberg</b>			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"				
	cisberg		2	by 3		2.23				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
1 -	-	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-25:0					
2 -	;;;;;GP	POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; dry; loose; mostly angular gravel; no odor; old fill?	85	0.0	B-25:2 B-25:2.5					
3 -	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel; burnt/charred wood and brick debris		0.0	D-23.2.3					
4 -	-	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0						
5 -	-				B-25:5					
6 -	- - ML									
7 -	-		90							
8 -	-									
9 -	- -			0.0						
10 -	[]]]ML]]] []]]]]]]]]]]	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_	0.0	B-25:10					
_		End of Borehole					End of Borehole			

NOTES: Fill 0-2' bgs

•	TRO		во	RING ID	: B-26					
	DDRESS		CLIE	NT:						
413 R	Rockefelle	er Ave, Everett, WA	Haa	ck Brothe	rs					
	NG CONTRA	ACTOR:	PROJECT #:							
Casc			424							
	NG EQUIPM		DATE:							
	Track Rig		_	7/2021	CE ELEV. FT AMSL:	DECOMMISSIONING				
	NG METHO t <b>Dush T</b> e	echnology		measured		Hydrated bento				
	ED BY:	ciniology		AL DEPTH:	4	BOREHOLE SIZE:	inte			
	V. Weisberg		10'	bgs		2.25"				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1 -	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-26:0.5					
2 -	-		50	0.0	B-26:2 B-26:2.5					
3 -	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	50	3.5	B-20:2.0					
4 -				8.0						
5 - - 6 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-26:5					
7 - -	.		100							
8 -										
_				0.0	B-26:10					
10 -		End of Borehole		0.0	۵-20.10		End of			

<b>♦</b> TRO		ВО	RING IE	D: B-27				
SITE ADDRESS		CLIE	ENT:					
413 Rockefelle	er Ave, Everett, WA	Haa	ack Broth	ers				
DRILLING CONTRA	ACTOR:	PROJECT #: <b>424198</b>						
Cascade								
DRILLING EQUIPM		DAT						
7822 Track Rig			7/2021		1			
DRILLING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN			
Direct Push Te	echnology		Measure AL DEPTH:	ea	BOREHOLE SIZE:	onite		
W. Weisberg			bgs		2.25"			
		ery						
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes		
0 - 1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-27:0.5				
2 -		60		B-27:2				
4	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.1	B-27:4				
5 - MANIONALIANA -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-27:6				
10	End of Borehole		0.0	B-27:10		End of		
	Zild of Boroffold					Borehole		

	TAC		ВС	RING II	D: B-28					
	ADDRESS	<del>-</del>	CLIE	ENT:						
		r Ave, Everett, WA		ack Broth	ers					
	NG CONTRA		PROJECT #:							
Casc	ade		424198							
DRILL	ING EQUIPM	IENT:	DAT	E:						
7822	Track Rig	1		7/2021						
	ING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
		echnology	_	measure		Hydrated bent	onite			
	ED BY: <b>/eisberg</b>			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"				
	Cisberg		2	bys		2.23				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
1 -	- ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-28:0.5					
2 -		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-28:1.5 B-28:2					
3 -	SP-SM	SILT WITH SAND; light reddish brown; damp;	50	0.0	B-28:4					
6 - 7 - 8 - 9 -	ML	very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-28:10					
10 -	<u> </u>	End of Borehole		0.0	B-28:10		End of			
							Borehole			

•	TRO		BORING ID: B-29							
	DDRESS		CLIE	NT:						
413 F	Rockefelle	er Ave, Everett, WA	Haa	ck Broth	ers					
RILLII	NG CONTRA	ACTOR:	PROJECT #:							
Casc			424	198						
	ING EQUIPN		DAT							
	Track Ric	=		7/2021		T				
DRILLING METHOD: Direct Push Technology				ACE ELEV. FT AMSL:	DECOMMISSIONIN					
	ED BY:	ecnnology		measure AL DEPTH:	d	Hydrated bento	nite			
	eisberg			bgs		2.25"				
		5	ery .							
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-29:0.5					
		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor;								
1 -		organics; some gravel			B-29:1					
_										
2 -	SP SM									
=			90							
3 -				0.0	B-29:3					
_										
4 -	<b>L</b> URTHAN HANDAN	SILT WITH SAND; light reddish brown; damp;								
		very stiff; medium plasticity; slow dilatency; no odor								
_	1	Outil								
5 -	-			0.0						
_	1									
6 -	4									
-										
7 -	_									
,										
-	1		100							
8 -	<u>                                     </u>									
0 -										
-	<del> </del>									
0										
9 -	1			0.0						
-		SANDY SILT; light reddish brown; damp; very								
		stiff; medium plasticity; slow dilatency; no odor		0.0	B-29:10					
10 -		End of Borehole		0.0	D-27.10		End of Borehole			

NOTES: Fill 0-0.5' bgs

♦ TAC	→ TRC		BORING ID: B-30						
SITE ADDRESS		CLIE	ENT:						
413 Rockefelle	er Ave, Everett, WA	Haa	ack Brothe	ers					
ORILLING CONTRA	ACTOR:	PROJECT #:							
Cascade			198						
DRILLING EQUIPN		DAT							
7822 Track Rig	<del>-</del>	-	7/2021	105 51 51/ 5T 11/01	DECOMMUNICALISM	O MATERIAL			
ORILLING METHOD:  Direct Push Technology				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
OGGED BY:	echhology	_	Measure	u	BOREHOLE SIZE:	nnie			
N. Weisberg			bgs		2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 1 - ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	6	0.0	B-30:0.5					
2 -		60		B-30:2					
3 - <b>Sp. SM</b>	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; dynamics; some gravel; burnt/charred wood and brick debris  SILT WITH SAND; light reddish brown; damp; very stiff; meidum plasticity; slow dilatency; no odor		0.0	B-30:3					
5 -       ML			0.0	B-30:5					
6 - SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor								
7 -   ML   -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	70	0.0						
8	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor								
9 -    ML    -			0.0						
10	_		0.0	B-30:10					
10	End of Borehole					End of Borehole			

•>	TRO		ВС	RING II	D: B-31					
	DDRESS		CLIE	ENT:						
413 R	Rockefelle	r Ave, Everett, WA	Haa	ack Broth	ers					
DRILLI	NG CONTRA	CTOR:	PRC	JECT #:						
Casc	ade		424	198						
DRILLI	NG EQUIPN	IENT:	DATE:							
7822	Track Rig	l	1/2	7/2021						
DRILLI	DRILLING METHOD:		GRO	OUND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	NG MATERIAL:			
Direc	Direct Push Technology		Not	measure	ed	Hydrated bent	onite			
	ED BY:			AL DEPTH:		BOREHOLE SIZE:				
	eisberg		10'	bgs		2.25"	<u> </u>			
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-31:0.5					
		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor;								
1 -		organics; minor gravel			B-31:1					
_	SP-SM									
2 -										
-			60							
3 -				0.0	B-31:3					
3 -				0.0	D-31.3					
-		SILTY SAND; dark reddish brown; damp; soft;	-							
		mostly fine sand and silt; no odor								
4 -	SM									
_	_									
5 -		SILT WITH SAND; light reddish brown; damp;		0.0						
		very stiff; medium plasticity; slow dilatency; no								
-	1	odor								
6 -	<u> </u>			0.0						
				0.0						
-	<u>{    '\'</u>									
_										
7 -	<b>1</b>									
_	<u> </u>		100							
8 -		SANDY SILT; light reddish brown; damp; very	+							
		stiff; medium plasticity; slow dilatency; no odor								
_										
9 -	ML      -			0.0						
-										
10					B-31:10					
10 -		End of Borehole	-				End of Borehole			
							Dorenole			

NOTES: Fill 0-0.5' bgs

→ TRC		BORING ID: B-32								
	DDRESS		CLIE	NT:						
13 R	ockefelle	r Ave, Everett, WA	Haa	ck Brothe	ers					
	NG CONTRA	CTOR:	PROJECT #:							
asc			424198							
	NG EQUIPN		DAT							
	Track Rig			//2021		T				
DRILLING METHOD:				ACE ELEV. FT AMSL:	DECOMMISSIONIN					
Direct Push Technology OGGED BY:		echnology	_	measure	a	Hydrated bento	nite			
	eisberg		10'			2.25"				
		Σ								
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1-	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-32:0.5					
2 -			80		B-32:2					
3 - 4 -	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-32:3					
5 -		SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-32:5					
6 -	ML									
7 - - 8 -			100							
9 -	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_							
10 -				0.0	B-32:10		_			
		End of Borehole					End of Borehole			

<b>♦</b> TRC		BORING ID: B-33								
SITE A	DDRESS		CLIE	NT:						
413 R	ockefelle	er Ave, Everett, WA	Haa	ick Broth	ers					
ORILLIN	NG CONTRA	ACTOR:	PROJECT #:							
Casc				198						
DRILLI	NG EQUIPM	IENT:	DATE:							
7822	Track Rig	J	1/27	7/2021						
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
	irect Push Technology		_	measure	ed	Hydrated bente	onite			
W. W	ED BY: eisberg		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-33:0.5					
1 -		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-33:1					
2 - 3 - 4 -	se-su		70	0.0	B-33:3					
5 -		SILT WITH GRAVEL; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0						
6 - - 7 -	ML									
8 -			85							
9 -				0.0	B-33:10					
10 –		End of Borehole		0.0	ט-33.10		End of Borehole			

∳ TRO		ВС	RING IE	D: B-34					
SITE ADDRESS		CLIE							
413 Rockefelle	er Ave, Everett, WA	Haa	ack Broth	ers					
DRILLING CONTRA	ACTOR:	PROJECT #: <b>424198</b>							
Cascade	AFAIT.								
DRILLING EQUIPM		DATE:							
7822 Track Rig		_	1/27/2021  GROUND SURFACE ELEV. FT AMSL: DECOMMISSIONING MATERIA						
	Direct Push Technology		measure		Hydrated bent				
LOGGED BY:		_	AL DEPTH:		BOREHOLE SIZE:	orinto .			
W. Weisberg		10'	bgs		2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-34:0.5					
2	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel	50	0.0	B-24:1.5					
3 - <b>SP. SM</b> - <b>SP. SM</b> 4				B-24:2.5					
5 GP	POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; damp; loose; no odor		0.0						
7 -	SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	100							
8 -			0.6						
10	End of Borehole		0.0	B-34:10		End of Borehole			

→ TRO		ВО	RING II	D: B-35					
SITE ADDRESS		CLIE	INT:						
413 Rockefelle	r Ave, Everett, WA	Haa	ick Broth	ers					
DRILLING CONTRA	CTOR:		JECT #:						
Cascade		424198							
DRILLING EQUIPM		DAT							
7822 Track Rig		_	7/2021	ACE ELEV ET AMEL	DECOMMUSCIONIA	IC MATERIAL.			
DRILLING METHOR  Direct Push Te			measure	ACE ELEV. FT AMSL:	DECOMMISSIONIN				
LOGGED BY:	cinology	_	AL DEPTH:	: <b>u</b>	BOREHOLE SIZE:	onite			
W. Weisberg		10'	bgs		2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-35:0.5					
3		50	0.0	B-35:2 B-35:3					
- <b>SP.SM</b> 4 -	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel								
5	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-35:5					
10	End of Borehole		0.0	B-35:10		End of			
						Borehole			

*>	TRO		во	RING II	D: B-36		
	DDRESS		CLIE	NT:			
413 R	Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
DRILLI	NG CONTRA	CTOR:		JECT #:			
Casc				198			
	NG EQUIPM		DAT				
	Track Rig			7/2021		T	
	NG METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
LOGGI		chnology	_	measure AL DEPTH:		Hydrated bent BOREHOLE SIZE:	
	eisberg			bgs		2.25"	
		5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 -		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-36:0.5		
2 -	ML		70		B-36:2		
- 4 - - 5 -	<b> \$6-\$M</b>	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-36:4		
- 6 - - 7 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-36:6		
8 - - 9 -	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10 -		End of Darahala		0.0	B-36:10		End of
		End of Borehole					Borehole

<b>♦</b> TRO		ВО	RING IE	D: B-37					
SITE ADDRESS		CLIE	ENT:						
413 Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers					
DRILLING CONTRA	ACTOR:	PROJECT #:							
Cascade		424198							
DRILLING EQUIPM		DATE:							
7822 Track Rig			7/2021	AOE ELEV ET AMEL	DECOMM MCCIONIN	IC MATERIAL			
DRILLING METHO		GROUND SURFACE ELEV. FT AMSL:  Not measured			DECOMMISSIONIN				
Direct Push Technology  LOGGED BY:			AL DEPTH:	eu .	BOREHOLE SIZE:	onite			
W. Weisberg		10'	bgs		2.25"				
	D	er Z							
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-37:0.5					
3 -		70		B-37:2.5					
4 - <b>SP SM</b> - 111111111111111111111111111111111111	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-37:4					
6 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-37:6					
7 -		100							
9 -									
				D 07.45					
10	End of Borehole		0.0	B-37:10		End of Borehole			

→ TRO		ВС	RING I	D: B-38		
SITE ADDRESS		CLIE	ENT:			
413 Rockefell	er Ave, Everett, WA	Haa	ack Broth	ers		
DRILLING CONTR	ACTOR:	1	DJECT#:			
Cascade  DRILLING EQUIP	MENT.	DAT	1198			
7822 Track Ri			⊏: 7/2021			
DRILLING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	NG MATERIAL:
Direct Push T		Not measured			Hydrated bent	
LOGGED BY:			AL DEPTH:		BOREHOLE SIZE:	
W. Weisberg		10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
O ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-38:0.5		
	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor;					
	organics; minor gravel			B-38:1		
2 -			0.0			
		65				
3 -				B-38:3		
4 - 4						
5	SILT WITH SAND; light reddish brown; damp;		0.0			
6 -	very stiff; medium plastic; slow dilatency; no odor					
-						
7 -           ML						
8 -		100				
-						
9 -						
			0.0	D 20.10		
10	LEnd of Borehole	Į	0.0	B-38:10		End of
						Borehole

→ TRC		BORING ID: B-39							
SITE ADDRESS		CLIE	NT:						
113 Rockefelle	r Ave, Everett, WA	Haa	ck Brothe	rs					
RILLING CONTRA	CTOR:	PROJECT #:							
ascade		424	198						
RILLING EQUIPM	ENT:	DAT	E:						
822 Track Rig		1/28	3/2021						
DRILLING METHOD: Direct Push Technology		GRO	OUND SURFA	CE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:			
			measured	d	Hydrated bento	nite			
OGGED BY:			AL DEPTH:		BOREHOLE SIZE:				
/. Weisberg		10'	bgs		2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; few organics; fill		0.0	B-39:0.5					
2 -		50		B-39:2					
4 -	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-39:5					
6	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-39:7					
8 -     ML -		95							
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor								
10	End of Borehole		0.0	B-39:10		End of			

•>	TRO		ВО	RING I	D: B-40		
SITE ADD			CLIE	NT:			
413 Ro	ckefelle	r Ave, Everett, WA	Haa	ick Broth	ers		
DRILLING	CONTRA	CTOR:		JECT #:			
Cascad	de		424	198			
	G EQUIPN		DAT	E:			
7822 Tr	rack Rig	l		3/2021		1	
	G METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
	Direct Push Technology			measure	ed	Hydrated bent	onite
LOGGED BY: W. Weisberg			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"		
	3 <b>5</b> 019		<u> </u>	by3		2.23	
Depl	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
1 -	MI	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; few organics; fill		0.0	B-40:0.5		
2 -			80		B-40:2		
4 - 1	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-40:3.5		
5 <del>                                     </del>		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-40:5.5		
7 -	ML		100				
9 -	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
				0.0	B-40:10		
10 -1111	<u>  11    11    11    11    1</u>	End of Borehole		0.0	D-40.10		End of Borehole

→ TRC	ВС	RING IE	D: B-41		
SITE ADDRESS		ENT:			
413 Rockefeller Ave, Everett, WA	_	ack Broth	ers		
DRILLING CONTRACTOR:	1	DJECT #: 1 <b>198</b>			
Cascade  DRILLING EQUIPMENT:	DAT				
7822 Track Rig		8/2021			
DRILLING METHOD:			ACE ELEV. FT AMSL:	DECOMMISSIONIN	NG MATERIAL:
Direct Push Technology	Not	t measure	ed	Hydrated bent	onite
LOGGED BY:	TOTAL DEPTH:			BOREHOLE SIZE:	
W. Weisberg		bgs		2.25"	
Description  USCS USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
O SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill  1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.0	B-41:0.5		
POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	50	0.0	B-41:1.5 B-41:2.5		
3 - 1.11			B-41:5		
6 SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0			
-	70				
10		0.0	B-41:10		
End of Borehole					End of Borehole

	TRO		ВО	RING ID	): B-42		
	DDRESS		CLIE	NT:			
413 F	Rockefelle	r Ave, Everett, WA	Haa	ck Brothe	ers		
RILLI	NG CONTRA	CTOR:	PRO	JECT #:			
Casc	ade		424	198			
RILL	ING EQUIPM	IENT:	DAT	E:			
822	Track Rig		1/28	3/2021			
RILL	ING METHOI	D:	GRC	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
		chnology	Not	measure	d	Hydrated bento	nite
	ED BY:			AL DEPTH:		BOREHOLE SIZE:	
	. Weisberg		10.	bgs		2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	-	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-42:0.5		
2 -	- ML		60		B-42:2		
4 - - 5 -	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-42:4.5		
6 -	- -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-42:6		
7 -	- - - - - - - - - - - - - - - - - - -		100				
8 -	- -						
9 -	-						
	<b> </b>			0.0	D 40.10		
10 -	<u></u>	End of Borehole	<u> </u>	0.0	B-42:10		End of

•	TRO		ВС	RING I	D: B-43		
	ADDRESS		CLIE	ENT:			
413 F	Rockefelle	r Ave, Everett, WA	Haa	ack Broth	ers		
DRILLII	NG CONTRA	CTOR:		DJECT #:			
Casc			-	1198			
	ING EQUIPM		DAT				
	Track Rig			8/2021		1,5,00,00,00,00	
	ING METHOI		1		ACE ELEV. FT AMSL:	DECOMMISSIONIN	
	t Push Te	chhology		t measure AL DEPTH:		Hydrated bento	onite
	eisberg		10' bgs			2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
1 -	-	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-43:0.5		
2 -	ML		80		B-43:2		
- 4 - -	SP SM	POORLY-GRADED SAND WTIH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-43:4		
5 - - 6 - - 7 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-43:6		
8 - - 9 -	. ML - III		65				
10 -				0.0	B-43:10		
		End of Borehole					End of Borehole

<b>♦</b> TR	C	ВС	RING II	D: B-44		
SITE ADDRESS		CLII	ENT:			
413 Rockefe	ller Ave, Everett, WA	Haa	ack Broth	ers		
DRILLING CON	RACTOR:		DJECT #:			
Cascade		424	1198			
DRILLING EQU		DAT				
7822 Track			8/2021		1	
DRILLING MET				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
	Technology	_	t measure	ed	Hydrated bent	onite
LOGGED BY: W. Weisberg	1	10' bgs			BOREHOLE SIZE: 2.25"	
<del></del>		2	J		2.20	
Depth (feet)	Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-44:0.5		
2 -		100		B-44:2		
4 - <b>SP.S</b>	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-44:4.5		
6 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-44:6		
7 -						
		90				
8 -						
9 -						
10			0.0	B-44:10		
10	End of Borehole	•				End of Borehole

CLIENT:  413 Rockefeller Ave, Everett, WA  DRILLING CONTRACTOR:  Cascade  DRILLING EQUIPMENT:  7822 Track Rig  DRILLING METHOD:  Direct Push Technology  LOGGED BY:  W. Weisberg  Description  CLIENT:  Haack Brothers  PROJECT #:  424198  DATE:  1/28/2021  GROUND SURFACE ELEV. FT AMSL:  BOREHOLE SIZE:  10' bgs  PID  CLIENT:  Haack Brothers  PROJECT #:  GROUND SURFACE ELEV. FT AMSL:  BOREHOLE SIZE:  2.25"	→ TRO	2	ВС	RING I	D: B-45		
DRILLING CONTRACTOR:  Cascade  424198  DATE: 1/28/2021  DATE: 1/28/2021  DRILLING METHOD:  DRILLING METHOD:  DRICLING METHOD:  Not measured  TOTAL DEPTH: 10* bgs  USCS  Description USCS name: Color: Molisture: Density: Plasticity: Dilatency: EPI description: Other  Amp; medium stiff: no odor: fill  SANDY WILL: gray/sh brown: damp; medium stiff: no odor  ML  GRAVEL: gray/sh brown: damp; medium stiff: no odor  SILT: WITH SAND: light reddish brown: damp; very stiff: medium plasticity: slow dilatency: no odor  ML  SANDY SILT: light reddish brown: damp; very stiff: medium plasticity: slow dilatency: no odor  SANDY SILT: light reddish brown: damp; very stiff: medium plasticity: slow dilatency: no odor	SITE ADDRESS		CLIE	ENT:			
Cascade  ### PRILLING FOUR FOUR FORM PRILLING METHOD: ### PRILLING METHO	413 Rockefell	er Ave, Everett, WA	Haa	ack Broth	ers		
DRILLING FOUIPMENT:  ### 128/201    PRINCE   Public   Property   P	RILLING CONTR	ACTOR:	PRC	JECT #:			
PRILLING METHOD:   GROUND SURFACE ELEV. FT AMSL:   Hydrated bentonite	Cascade		424	198			
DECOMMISSIONING MATERITY STATES AND WITH SILT AND ODDORS SANDY WILT WITH GRAVEL: grayish brown: damp: very stiff; medium plasticity; slow dilatency; no odor of which was stiff; medium plasticity; slow dilatency; no odor of which was stiff; medium plasticity; slow dilatency; no odor of which was stiff; medium plasticity; slow dilatency; no odor odor odor odor odor odor odor o	DRILLING EQUIP	MENT:	DAT	E:			
Direct Push Technology   Not measured   Hydrated bentonite	822 Track Ri	g	1/28	8/2021			
Description USCS Plasticity Dilatency: EPI description oddr: fill  SANDY WILT WITH GRAVEL: grayish brown: damp: very stiff; medium plasticity; slow dilatency: no odor  DOORLY-GRADED SAND WITH SILT AND GRAVEL: grayish brown: damp: very stiff; medium plasticity; slow dilatency: no odor  SANDY SILT; light reddish brown: damp: very stiff; medium plasticity; slow dilatency: no odor	RILLING METHO	DD:	GRO	OUND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	NG MATERIAL:
W. Weisberg  USCS Description USCS and	Direct Push T	echnology	Not	measure	ed	Hydrated bent	onite
SANDY WILT WITH GRAVEL: grayIsh brown: damp; medium stiff; no odor; fil  90  B-45:0.5   B-45:3  POORLY-GRADED SAND WITH SILT AND GRAVEL: grayIsh brown; damp; medium stiff; no odor  SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor			10' bgs				
SANDY WILT WITH GRAVEL; grayIsh brown; damp; medium stiff; no odor; fil  90  B-45:0.5  B-45:3  4 SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	Depth (feet)	USCS name; Color; Moisture; Density;	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
B-45:3  POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor  SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  ML  SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_	SANDY WILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fil			B-45:0.5		
GRAVEL; grayish brown; damp; medium stiff; no odor  SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor  6 - ML  7 - SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_		90		B-45:3		
8 SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	SP-SM	GRAVEL; grayish brown; damp; medium stiff; no		0.0	B-45:4		
8 SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	-	very stiff; medium plasticity; slow dilatency; no		0.0	R-45·6		
8 SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor				0.0	<i>B</i> 43.0		
stiff; medium plasticity; slow dilatency; no odor	-		100				
9 -	-	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
	9 -			0.0	B-45:9		
10 End of Borehole B-45:10	10			0.0	B-45:10		End of

	TRO		BORING ID: B-46							
	DDRESS		CLIE	NT:						
413 R	Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers					
RILLI	NG CONTRA	ACTOR:	1	JECT #:						
Casc			424	198						
	NG EQUIPM		DAT							
	Track Rig			3/2021		1				
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN				
		echnology	_	measure	ed	Hydrated bento	onite			
	ED BY: eisberg		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"				
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1-		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-46:0.5					
2 -		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no	- 60		B-46:2					
3 -	SP:SM	odor		0.0	B-46:3					
- 5 -					B-46:5					
6 -	MI	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.6						
7 -			100							
8 -	- -	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_							
9 -				0.0						
10 -		End of Borehole		0.0	B-46:10		End of			

TRO		во	RING I	D: B-47		
SITE ADDRESS		CLIE	NT:			
413 Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
RILLING CONTRA	ACTOR:		JECT #:			
Cascade		424	198			
RILLING EQUIPM	IENT:	DAT	E:			
822 Track Rig	1	1/28	3/2021			
RILLING METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
Direct Push Te	chnology				Hydrated bento	onite
OGGED BY: V. Weisberg		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-47:0.5		
2 <b>             </b>   <b>             </b> 	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	70	0.0	B-47:2 B-47:2.5		
3	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_				
5 -			0.0	B-47:4.5		
7 -		100				
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_	0.0			
ML    -	an, modium plasticity, slow dilatericy, no oddi					
10	End of Borehole		0.0	B-47:10		

•	TRO		ВС	RING I	BORING ID: B-48						
	DDRESS		CLIE	ENT:							
413 R	ockefelle	r Ave, Everett, WA	Haa	ck Broth	ers						
DRILLI	NG CONTRA	ACTOR:	- 1	JECT #:							
Casc	ade		424	198							
	NG EQUIPM			DATE:							
7822	Track Rig	1	3/2021		_						
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN					
		echnology		measure	ed	Hydrated bento	onite				
W. W	ED BY: <b>eisberg</b>		10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"					
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes				
0 - 1 -		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-48:1						
2 - - 3 - - 4 -	ML		60	0.0	B-48:3						
5 - -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-48:5						
6 -	ML										
7 - - 8 -			90	0.0	B-48:7						
9 -	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		υ.υ							
4.0				0.0	B-48:10						
10 -		End of Borehole		5.5	5 10.10		End of				

*> TAC		BORING ID: B-49						
SITE ADDRESS		CLIE	NT:					
413 Rockefelle	er Ave, Everett, WA	Haa	ck Brothe	ers				
DRILLING CONTRA	ACTOR:	- 1	JECT#:					
Cascade	AFAIT.	424						
DRILLING EQUIPM		DAT						
7822 Track Rig		_	3/2021	ACE ELEV. FT AMSL:	DECOMMISSIONIN	IC MATERIAL:		
Direct Push Te			measure		Hydrated bento			
LOGGED BY:	.cimology		AL DEPTH:	<u>u</u>	BOREHOLE SIZE:	Jinto .		
W. Weisberg		10'	bgs		2.25"			
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes		
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-49:1				
2 -		60		B-49:3				
5 — SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-49:5				
6	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	70	0.0	B-49:7				
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	_	0.0					
10 -	End of Borehole		0.0	B-49:10		End of		

→ TRC		BORING ID: B-50							
SITE ADDRESS		CLIE	NT:						
413 Rockefelle	r Ave, Everett, WA	Haa	ck Brothe	ers					
RILLING CONTRA		PRO	JECT #:						
Cascade		424	198						
ORILLING EQUIPM	IENT:	DATI	E:						
822 Track Rig	I	1/28	3/2021						
RILLING METHO	D:	GRO	UND SURFA	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:			
Direct Push Te	chnology	Not	measure	d	Hydrated bento	nite			
OGGED BY:					BOREHOLE SIZE:				
W. Weisberg		10' bgs 2			2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-50:0.5					
3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	80	0.0	B-50:2.5 B-50:3.5					
\$ <b>P.\$M</b> :			0.0	Б-90:3.5					
5 - HINNER HINNER	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-50:5					
8 -		100							
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0						
10	End of Borehole		0.0	B-50:10		End of			

•	TRO		ВС	RING I	D: B-51		
	DDRESS		CLIE	ENT:			
413 R	Rockefelle	r Ave, Everett, WA	Haa	ack Broth	ers		
DRILLI	NG CONTRA	CTOR:	- 1	JECT #:			
Casc				198			_
	NG EQUIPM		DAT				
	Track Rig			8/2021		1	
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
	ED BY:	chnology		measure		Hydrated bente BOREHOLE SIZE:	onite
	eisberg		1			2.25"	
			Zie	- <del>g</del> -			
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
1 -	-	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-51:0.5		
2 -			60		B-51:2		
4 - - 5 -	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-51:5		
-	-						
6 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
7 -	-		80	0.0	B-51:7		
8 -	ML I						
9 -							
	<b> </b>			0.0	B-51:10		
10 -		End of Borehole		0.0	0-31.10		End of Borehole

→ TRO		BORING ID: B-52							
SITE ADDRESS		CLIE	NT:						
413 Rockefelle	er Ave, Everett, WA	Haa	ck Broth	ers					
DRILLING CONTR	ACTOR:	PRO	JECT #:						
Cascade		424	198						
DRILLING EQUIP	MENT:	DAT	E:						
7822 Track Ri	g	1/28	3/2021						
DRILLING METHO	DD:	GRC	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONING	G MATERIAL:			
Direct Push To	echnology	Not	measure	ed	Hydrated bento	nite			
LOGGED BY:					BOREHOLE SIZE:				
W. Weisberg	T				2.25"				
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes			
0 - 1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-52:0.5					
-		60		B-52:2					
4	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-52:4					
5 ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-52:6					
7 -		100							
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-52:10					
10 <del>        </del>	End of Borehole		5.0	5 02.10		End of			

* TRO		ВО	RING I	D: B-53		
SITE ADDRESS		CLIE	ENT:			
413 Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
ORILLING CONTRA	CTOR:	1	JECT #:			
Cascade			198			
DRILLING EQUIPM		DAT				
7822 Track Rig			3/2021		1	
DRILLING METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
Direct Push Te LOGGED BY:	chnology	_	measure AL DEPTH:	ed	BOREHOLE SIZE:	onite
W. Weisberg		10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-53:0.5		
2 -	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	50		B-53:2.5		
\$ <b>P.\$M</b> . 4 -::::::::::::::::::::::::::::::::::::	SILT WITH SAND; light reddish brown; damp;		0.0	B-53:3.5		
6 -	very stiff; medium plasticity; slow dilatency; no odor		0.0	B-53:5.5		
7 -		80				
8 -						
9 -						
10	 End of Borehole		0.0	B-53:10		End of

•	TRO		во	RING ID	): B-54		
	DDRESS		CLIE	ENT:			
413 R	ockefelle	r Ave, Everett, WA	Haa	ack Broth	ers		
	NG CONTRA	ACTOR:		JECT #:			
Casc				198			
	NG EQUIPM		DAT				
	Track Rig			9/2021		1	0.4475544
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
	ED BY:	echnology		Measure AL DEPTH:	<u>u</u>	BOREHOLE SIZE:	mile
	eisberg		10'	bas		2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-54:0.5		
2			70		B-54:2.5		
4 -	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-54:4		
5 - - 6 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; low dilatency; no odor		0.0	B-54:6		
7 - -	ML		100				
8 - - 9 -							
9 - - 10 -				0.0	B-54:10		
IU -		End of Borehole					End of Borehole

*	TRO	•	ВС	RING II	D: B-55		
	DDRESS	_	CLIF	ENT:			
		r Ave, Everett, WA		ack Broth	ers		
	G CONTRA			DJECT #:			
Casca	ıde		424	198			
DRILLIN	NG EQUIPM	ENT:	DAT	E:			
7822	Гrack Rig		1/2	9/2021			
	NG METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
		chnology	_	t measure		Hydrated bent	onite
LOGGE	D BY: e <b>isberg</b>			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
	isberg		10 2	bys		2.25	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-55:0.5		
2 -	J. D. F. D. HOU F. D. H.	POORLY-GRADED SAND WITH SILT AND	80		B-55:2		
3 -	SP-SM	GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-55:3		
4 -				0.0	B-55:5		
6 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency		0.0	B-33.3		
7 -	ML		100				
8 -							
9 -							
10 1	<u> </u>	End of Borehole		0.0	B-55:10		End of
		End of Dorentie					Borehole

*> TRO		во	RING IE	): B-56		
SITE ADDRESS		CLIE	NT:			
413 Rockefelle	r Ave, Everett, WA	Haa	ck Broth	ers		
RILLING CONTRA		PRO	JECT #:			
Cascade		424	198			
ORILLING EQUIPM	IENT:	DAT	E:			
822 Track Rig	I	1/29	9/2021			
RILLING METHO	D:	GRO	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
Direct Push Te	chnology	Not	measure	d	Hydrated bento	nite
OGGED BY:			AL DEPTH:		BOREHOLE SIZE:	
V. Weisberg		10'	bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-56:0.5		
2	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	90		B-56:2		
3 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-56:3		
5 -			0.0	B-56:5		
6 -		100	0.0			
9 - ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10	End of Borehole		0.0	B-56:10		End of

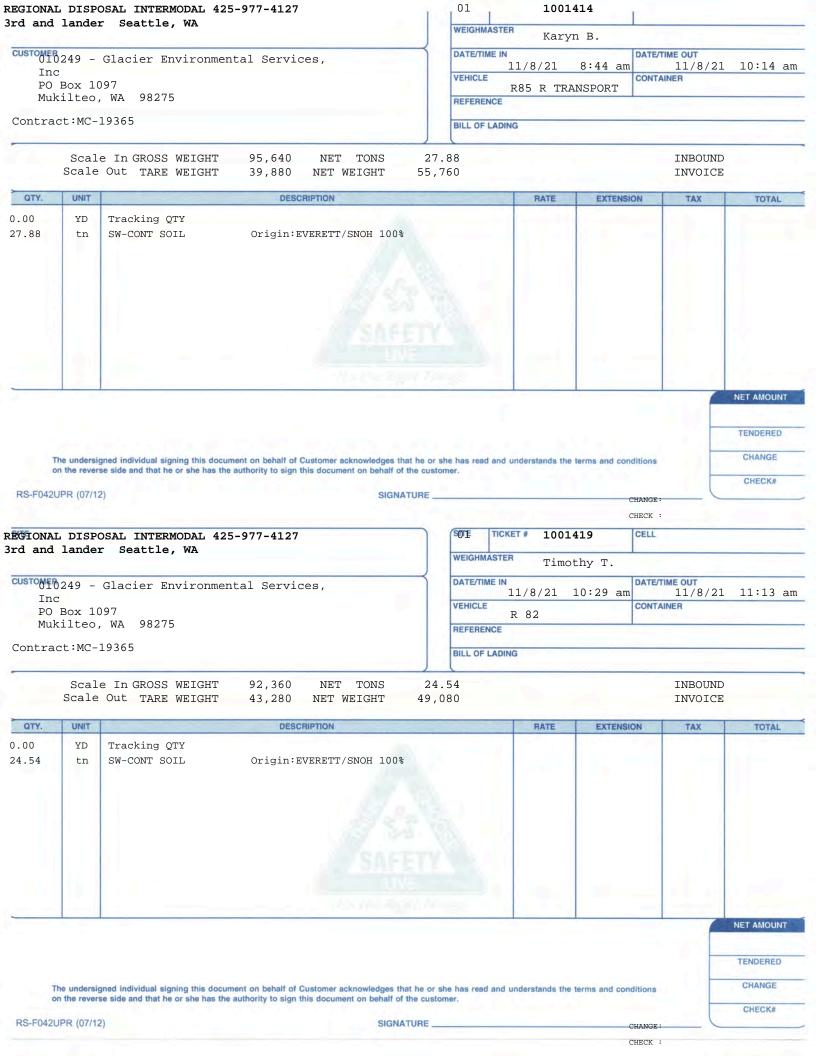
•>	TRO		ВС	RING II	D: B-57		
SITE A	DDRESS		CLIE	ENT:			
413 R	ockefelle	er Ave, Everett, WA	Haa	ck Broth	ers		
	IG CONTRA	ACTOR:		JECT #:			
Casca				198			
	NG EQUIPM		DAT				
	Track Rig			9/2021		1	
	NG METHO				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
LOGGE		echnology		measure	ed	Hydrated bento	onite
W. W	eisberg	I	10'	AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 - 1 -	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-57:0.5		
2 -	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	60	0.0	B-57:1.8 B-57:2		
3 - - 4 -		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-57:3.5		
5 - -	ML						
6 - -							
7 -		SANDY SILT; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	100				
8 -	ML	,		0.0			
9 – -				0.0	D 57.40		
10 <sup>_l</sup>		LEnd of Borehole		0.0	B-57:10		End of

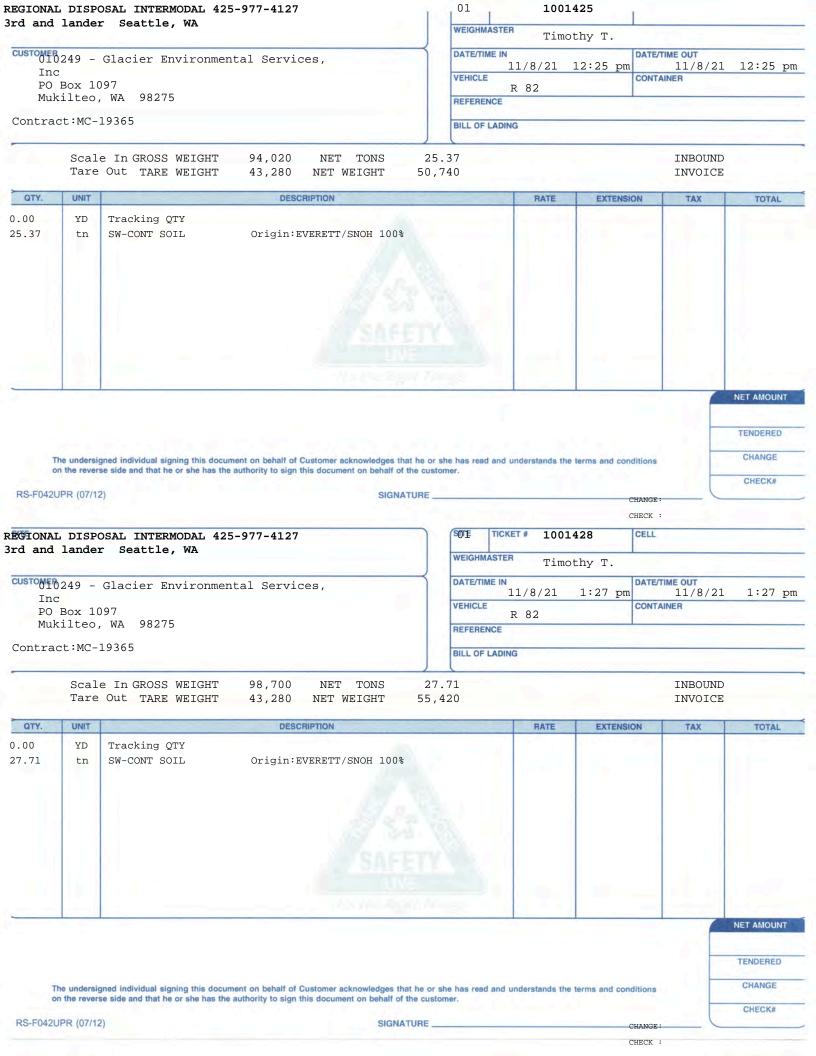
→ TRO		ВС	RING I	): B-58		
SITE ADDRESS		CLIE	ENT:			
413 Rockefelle	er Ave, Everett, WA	Haa	ck Broth	ers		
DRILLING CONTRA	ACTOR:		JECT#:			
Cascade	AFAIT.		198			
DRILLING EQUIPM		DAT				
7822 Track Rig	•		9/2021	ACE ELEV. FT AMSL:	DECOMMISSIONIN	C MATERIAL.
DRILLING METHO  Direct Push Te			measure		Hydrated bento	
LOGGED BY:	cinology		AL DEPTH:	·u	BOREHOLE SIZE:	nnte
W. Weisberg			bgs		2.25"	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0     ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	D E0:0		
	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no		0.0	B-58:0		
	odor			B-58:1		
2 - <b>SP-SM</b>			0.0			
		60				
3				B-58:3		
	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no					
-	odor					
5 -			0.0			
-          						
6 -						
7 -						
-{		100				
8	SANDY SILT; light reddish brown; damp; very		0.0			
-	stiff; medium plasticity; slow dilatency; no odor					
9 -						
10			0.0	B-58:10		_
10	End of Borehole					End of Borehole

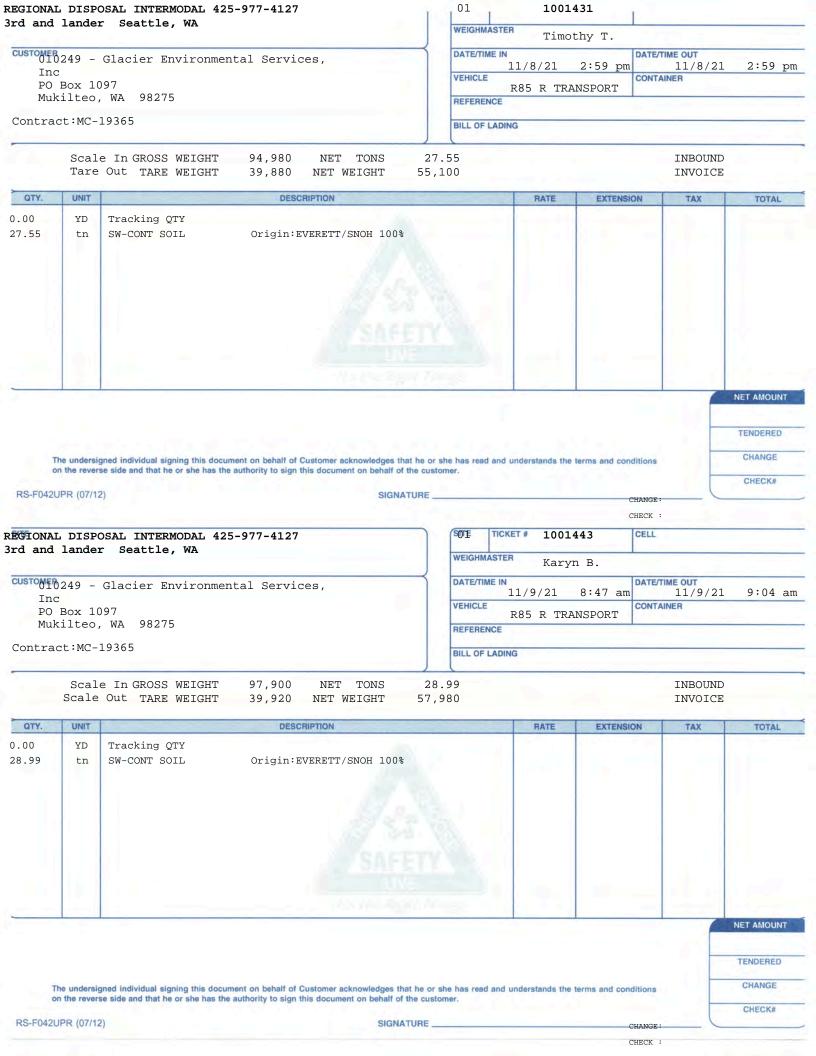
Ti	RC		во	RING I	): B-59		
SITE ADDRE			CLIE	NT:			
413 Rocke	efelle	r Ave, Everett, WA	Haa	ck Broth	ers		
RILLING CC	ONTRA	CTOR:	PRO	JECT #:			
Cascade			424	198			
RILLING E	QUIPN	IENT:	DAT	E:			
'822 Trac	k Rig	I	1/29	9/2021			
RILLING M	ETHO	D:	GRC	UND SURF	ACE ELEV. FT AMSL:	DECOMMISSIONIN	G MATERIAL:
irect Pus	sh Te	chnology	Not	measure	ed	Hydrated bento	onite
OGGED BY				AL DEPTH:		BOREHOLE SIZE:	
V. Weisbe	erg		10.	bgs		2.25"	
Depth (feet)	scs	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0 -		SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-59:0.5		
2 <b>SP</b> .	SM.	POORLY-GRADED SAND WITH SILT AND			B-50:1.5		
3 TITT	) (1)	GRAVEL; grayish brown; damp; medium stiff; no odor POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; damp; loose; no odor  SILT WITH SAND; light reddish brown; damp;	60	0.0	B-59:2.5		
4 -		very stiff; medium plasticity; slow dilatency; no odor		0.0			
5 -	1 1 1 1			0.0	B-59:5		
7 -			100				
8 -				0.0			
		SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	D E0:10		
10	<u>                                      </u>	End of Borehole	Ш	0.0	B-59:10		End of

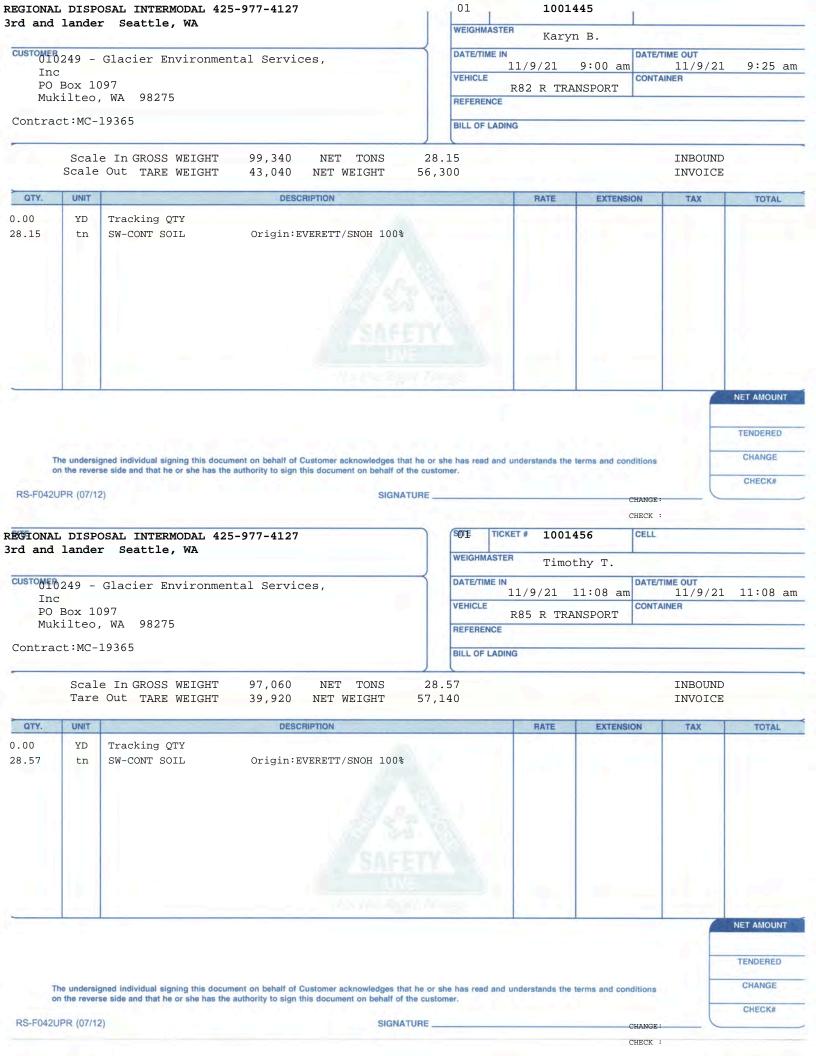
* TRO		во	RING ID	): B-60		
SITE ADDRESS		CLIE	INT:			
113 Rockefelle	r Ave, Everett, WA	Haa	ck Brothe	ers		
RILLING CONTRA	CTOR:		JECT #:			
Cascade		424	198			
RILLING EQUIPM		DAT				
822 Track Rig			9/2021		1	
RILLING METHOI				ACE ELEV. FT AMSL:	DECOMMISSIONIN	
irect Push Te	chnology		measure	d	Hydrated bento	nite
OGGED BY: <b>/. Weisberg</b>			AL DEPTH: <b>bgs</b>		BOREHOLE SIZE: 2.25"	
		10	bys		2.25	
Depth (feet)	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
1 - ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-60:0.5		
2 -		100		B-60:2		
3 <b>SP-\$M</b> -4 -:::::::::::::::::::::::::::::::::::	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-60:3		
5 -	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-60:5		
6 -		100				
8 -						
9	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
10 -	End of Borehole		0.0	B-60:10		End of

Attachment G Disposal Weight Tickets









USTOMER 010249 - Inc				111110	thy T.		
Inc	- Glacier Environmen	ntal Services,	DATE/TIME II			TIME OUT	1 11.50
PO Box 1			VEHICLE		11:31 am CONT		1 11:50 a
	o, WA 98275		REFERENCE	R 82			
ontract:MC	-19365		BILL OF LAD	DING			
	le In GROSS WEIGHT e Out TARE WEIGHT	100,720 NET TONS 42,860 NET WEIGHT	28.93 57,860			INBOUNI INVOICI	
QTY. UNIT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
000 YD 3.93 tn	Tracking QTY SW-CONT SOIL	Origin:EVERETT/SNOH 100%					
		SAFE	n'A				NET AMOUNT
							NET AMOUNT
							TENDERED
The under	signed individual signing this docu	ment on behalf of Customer acknowledges that	he or she has read and	d understands the	terms and conditions	-	CHANGE
on the reve	erse side and that he or she has the	authority to sign this document on behalf of th	e customer.				CHECK#
RS-F042UPR (07/	12)	SIGNATI	JRE		CHANGE		
					CHECK		
	POSAL INTERMODAL 42	5-977-4127	SOTE TIC	KET # 1001	474 CELL		
d and lande	er Seattle, WA		WEIGHMAST	ER Kary	n B.		
USTOME0249 -	- Glacier Environmen						
		ntal Services,	DATE/TIME IN			TIME OUT	
Inc		ntal Services,	VEHICLE	11/9/21	1:29 pm	11/9/2	1 1:29 r
Inc PO Box 1		ntal Services,	VEHICLE	11/9/21 R85 R TRA	1:29 pm	11/9/2	1 1:29 p
Inc PO Box 1 Mukilted	.097 ), WA 98275	ntal Services,	VEHICLE	11/9/21 R85 R TRA	1:29 pm	11/9/2	1 1:29 p
Inc PO Box 1	.097 ), WA 98275	ntal Services,	VEHICLE	11/9/21 R85 R TRA	1:29 pm	11/9/2	1 1:29 r
Inc PO Box 1 Mukiltec ontract:MC	.097 ), WA 98275	96,400 NET TONS 39,920 NET WEIGHT	VEHICLE	11/9/21 R85 R TRA	1:29 pm	11/9/2	D
Inc PO Box 1 Mukilted ontract:MC	1.097 2. WA 98275 -19365 le In GROSS WEIGHT e Out TARE WEIGHT	96,400 NET TONS	VEHICLE REFERENCE BILL OF LAD	11/9/21 R85 R TRA	1:29 pm	11/9/2	D
Inc PO Box 1 Mukilted ontract:MC Sca Tare	.097 ), WA 98275 -19365 le In GROSS WEIGHT	96,400 NET TONS 39,920 NET WEIGHT	VEHICLE REFERENCE BILL OF LAD	11/9/21 R85 R TRA	1:29 pm CONTAINSPORT	11/9/2	D E
Inc PO Box 1 Mukilted ontract:MC- Scal Tarc  OTY. UNIT	1097 20, WA 98275 219365  Tracking QTY	96,400 NET TONS 39,920 NET WEIGHT	VEHICLE REFERENCE BILL OF LAD	11/9/21 R85 R TRA	1:29 pm CONTAINSPORT	11/9/2	TOTAL
Inc PO Box 1 Mukilted ontract:MC- Scal Tarc  OTY. UNIT	1097 20, WA 98275 219365  Tracking QTY	96,400 NET TONS 39,920 NET WEIGHT	VEHICLE REFERENCE BILL OF LAD	11/9/21 R85 R TRA	1:29 pm CONTAINSPORT	11/9/2	NET AMOUNT
Inc PO Box 1 Mukilted Ontract:MC- Sca. Tarc  OTY. UNIT 00 YD 1.24 tn	1097 0, WA 98275 -19365  le In GROSS WEIGHT e Out TARE WEIGHT  Tracking QTY SW-CONT SOIL	96,400 NET TONS 39,920 NET WEIGHT  DESCRIPTION  Origin: EVERETT/SNOH 100%	VEHICLE REFERENCE BILL OF LAD  28.24 56,480	11/9/21 R85 R TRA	1:29 pm CONTAINSPORT CONTAINSPORT	11/9/2	NET AMOUNT
Inc PO Box 1 Mukilted Ontract:MC  Sca. Tare  OTY. UNIT  00 YD .24 tn	D. 097 D. WA 98275 D. 19365  Le In GROSS WEIGHT D. WEIGHT Tracking QTY SW-CONT SOIL  Signed individual signing this documents of the control	96,400 NET TONS 39,920 NET WEIGHT	VEHICLE REFERENCE BILL OF LAD  28.24 56,480	11/9/21 R85 R TRA	1:29 pm CONTAINSPORT CONTAINSPORT	11/9/2	NET AMOUNT

