

Cleanup Action Report

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

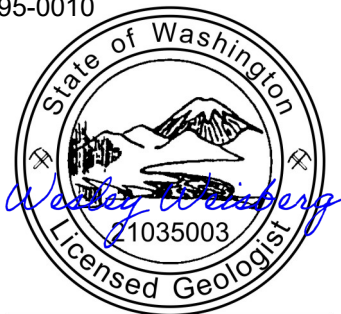
Prepared For:

**Haack Brothers Homes
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Marysville, Washington 98270**

May 2, 2022

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TRC Project Number: 424198.0001.0000

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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 site for which you are requesting a written opinion under the VCP. This information may be found on the VCP Agreement.

Facility/Site Name:

Facility/Site Address:

Facility/Site No:

VCP Project No.:

Step 2: REQUEST WRITTEN OPINION ON PLAN OR REPORT

What type of independent remedial action plan or report are you submitting to Ecology for review under the VCP? Please check all that apply.

- Remedial investigation plan
- Remedial investigation report
- Feasibility study report
- Property cleanup* plan (* cleanup 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 with a written opinion on the planned or completed independent remedial action?

- Yes No

Please note that Ecology's opinion will be limited to:

- Whether the planned or completed remedial action at the site meets the substantive requirements of the Model Toxics Control Act (MTCA), and/or
- Whether further remedial action is necessary at the site under MTCA.

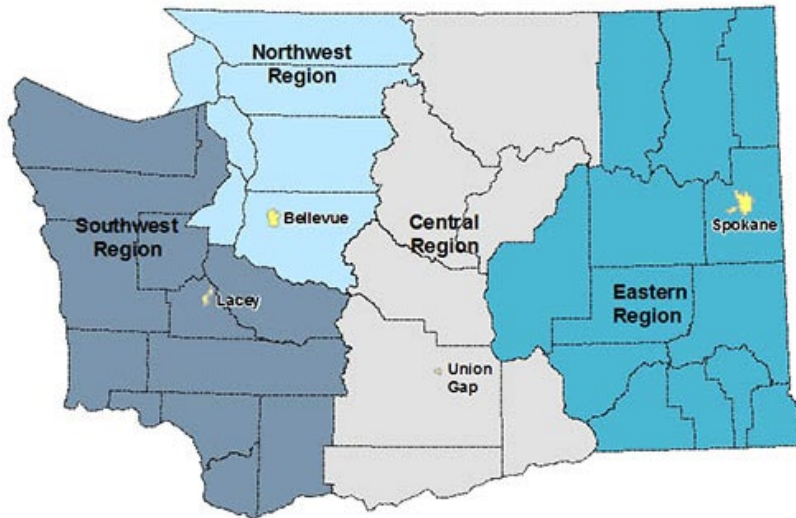
Step 3: REPRESENTATIONS AND SIGNATURE

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: <i>Wesley Weisberg</i>		Date:	
Organization:			
Mailing address:			
City:		State:	Zip 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.



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

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.

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 SITE IDENTIFICATION AND DESCRIPTION	2
2.1 Site Discovery and Regulatory Status	2
2.2 Property and Site Location	3
2.3 Site Setting	4
2.4 Physiographic Setting	4
3.0 PROPERTY DEVELOPMENT AND HISTORY	4
3.1 Past Site Uses	5
3.2 Current and Future Site Use	5
3.3 Zoning	5
3.4 Transportation and Roads	5
3.5 Utilities and Water Supply	5
3.6 Potential Sources of Contamination, Identification of Release	5
4.0 NATURAL CONDITIONS	6
4.1 Soil	6
4.2 Groundwater	6
4.3 Surface Water	6
4.4 Natural Resources and Ecological Receptors	6
5.0 ENVIRONMENTAL INVESTIGATION	7
5.1 Targeted Subsurface Investigation	8
5.2 Revised Additional Subsurface Investigation	8
6.0 CONTAMINANT OCCURRENCE AND MOVEMENT	9
7.0 CONCEPTUAL MODEL	9
8.0 CLEANUP STANDARDS	10
8.1 Soil	10
8.2 Groundwater	11
8.3 Surface Water	11
8.4 Indoor Air	11
9.0 FEASIBILITY STUDY AND WORK PLAN	11
9.1 Remedial Action Objectives	11
9.2 Selection of Cleanup Action	11

10.0 CLEANUP OF THE PROPERTY	12
10.1 Permitting and Site Preparation	13
10.2 Remedial Excavation	13
10.2.1 Excavation Area 1	13
10.2.2 Excavation Area 2	13
10.2.3 Excavation Area 3	14
10.2.4 Excavation Area 4	15
10.2.5 Excavation Area 5	15
10.2.6 Excavation Area 6	15
10.3 Waste Designation and Disposal	16
10.4 Health and Safety	16
11.0 CONCLUSIONS	17
12.0 LIMITATIONS	17
13.0 BIBLIOGRAPHY	18

TABLES

Table 1	Test Pit Soil Analytical Results
Table 2	Additional Subsurface Investigation Soil Analytical Results
Table 3	Remedial Excavation Soil Analytical Results
Table 4	Toxicity Characteristic Leaching Procedure (TCLP) Metals Analytical Results

FIGURES

Figure 1	General Vicinity Map
Figure 2	Site Representation
Figure 3	Test Pit Soil Analytical Results
Figure 4	Additional Sub-surface Investigation in Soil, Analytical Results
Figure 5	Remedial Excavation Areas
Figure 6	Conceptual Site Model
Figure 7	Excavation Area 1 – All Soil Samples
Figure 8	Excavation Area 1 – Final Performance Samples
Figure 9	Excavation Area 2 – All Soil Samples
Figure 10	Excavation Area 2 – Final Performance Samples
Figure 11	Excavation Area 3 – All Soil Samples
Figure 12	Excavation Area 3 – Final Performance Samples
Figure 13	Excavation Area 4 – All Soil Samples
Figure 14	Excavation Area 4 – Final Performance Soil Samples
Figure 15	Excavation Area 5 – All/Final Performance Soil Samples
Figure 16	Excavation Area 6 – All Soil Samples
Figure 17	Excavation Area 6 – Final Performance Soil Samples

ATTACHMENTS

Attachment A	Environmental Covenant
Attachment B	Legion Memorial Golf Course – Additional Subsurface Investigation Work Plan, dated 2-28-20
Attachment C	VCP Opinion Letter NW3268
Attachment D	Legion Memorial Golf Course – Revised Additional Subsurface Investigation Work Plan, dated 1-29-2021
Attachment E	Laboratory Analytical Reports
Attachment F	Bore Logs
Attachment G	Disposal Weight Tickets

ABBREVIATIONS AND ACRONYMS

Abbreviation/ Acronym	Definition
ASI	Additional Subsurface Investigation
ASIWP	Additional Subsurface Investigation Work Plan
bgs	Below ground surface
CAR	Cleanup Action Report
CFR	Code of Federal Regulations
COC	Contaminants of concern
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 87th 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 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 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)¹, 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.

¹ 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 Brothers 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 test 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 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 on-site 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.

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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 ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
TP-1	TP-1:4	4	12/10/2019	3.32	<1	4.8
	TP-1:5.5	5.5	12/10/2019	4.05	<1	5.79
TP-2	TP-2:4.5	4.5	12/10/2019	8.16	<1	7.8
	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
	TP-3:7	7	12/10/2019	8.94	<1	9.58
TP-4	TP-4:4.5	4.5	12/10/2019	12.5	<1	17.8
	TP-4:5.5	5.5	12/10/2019	4.0	<1	3.96
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses^b				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.

Table 2
Additional Subsurface Investigation Soil Analytical Results
Cleanup Action Report
Haack Brother Homes Legion Lots Parcels
413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
B-1	B-1:0.5	0.5	1/25/2021	27.0	<1	66.1
	B-1:2	2	1/25/2021	11.1	<1	11.2
B-2	B-2:0.5	0.5	1/25/2021	16.5	<1	39.6
	B-2:2	2	1/25/2021	10.4	<1	8.89
	B-2:2 DUP-1	2	1/25/2021	12.6	<1	11.0
B-3	B-3:0.5	0.5	1/25/2021	15.4	<1	26.5
	B-3:2	2	1/25/2021	11.3	<1	10.3
B-4	B-4:0.3	0.3	1/25/2021	<5	<1	4.82
	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	B-5:0.3	0.3	1/25/2021	6.03	<1	6.59
	B-5:1	1	1/25/2021	10.2	<1	59.6
	B-5:3	3	1/25/2021	12.1	<1	11.4
	B-5:3 DUP-2	3	1/25/2021	12.5	<1	13.4
B-6	B-6:0.5	0.5	1/25/2021	<5	<1	5.16
	B-6:2	2	1/25/2021	<5	<1	4.24
	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	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-7:2 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	B-8:0.5	0.5	1/25/2021	<5	<1	4.49
	B-8:2	2	1/25/2021	<5	<1	4.66
	B-8:3	3	1/25/2021	9.97	<1	24.4
	B-8:5	5	1/25/2021	11.4	<1	10.7
B-9	B-9:0.3	0.3	1/25/2021	<5	<1	5.25
	B-9:0.3 DUP-4	0.3	1/25/2021	6.04	<1	14.8
	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	B-10:0.3	0.3	1/25/2021	<5	<1	7.38
	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	B-11:0.5	0.5	1/25/2021	<5	<1	5.35
	B-11:1	1	1/25/2021	5.54	<1	14.2
	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	B-12:0.5	0.5	1/25/2021	<5	<1	4.55
	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	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-13:1.5 DUP-6	1.5	1/26/2021	<5	<1	3.96
	B-13:2	2	1/26/2021	7.58	<1	44.7
	B-13:4	4	1/26/2021	12.1	<1	9.09
B-14	B-14:0.5	0.5	1/26/2021	<5	<1	5.04
	B-14:2	2	1/26/2021	<5	<1	4.74
	B-14:3	3	1/26/2021	20.6	<1	54
	B-14:5	5	1/26/2021	11.4	<1	11
B-15	B-15:0.5	0.5	1/26/2021	<5	<1	4.8
	B-15:2	2	1/26/2021	<5	<1	3.78
	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	B-16:0.5	0.5	1/26/2021	5.02	<1	4.72
	B-16:2	2	1/26/2021	<5	<1	8.51
	B-16:2.5	2.5	1/26/2021	16.6	<1	55
	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	B-17:0.5	0.5	1/26/2021	5.03	<1	5.73
	B-17:2	2	1/26/2021	<5	<1	4.54
	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	B-18:0.5	0.5	1/26/2021	5.0	<1	4.92
	B-18:1.8	1.8	1/26/2021	<5	<1	4.76
	B-18:2	2	1/26/2021	16.5	1.28	109
B-18	B-18:4.2	4.2	1/26/2021	<5	<1	5.15
B-19	B-19:0.5	0.5	1/26/2021	6.31	<1	8.77
	B-19:0.5 DUP-8	0.5	1/26/2021	<5	<1	4.25
	B-19:1	1	1/26/2021	<5	<1	12.1
	B-19:3	3	1/26/2021	33.5	1.32	153
B-20	B-20:0.5	0.5	1/26/2021	<5	<1	3.51
	B-20:1	1	1/26/2021	8.48	<1	10.4
	B-20:3	3	1/26/2021	12.1	<1	12.1

Table 2
Additional Subsurface Investigation Soil Analytical Results
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413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
B-21	B-21:0.5	0.5	1/26/2021	<5	<1	3.9
	B-21:2	2	1/26/2021	<5	<1	2.68
	B-21:3	3	1/26/2021	29.8	<1	439
	B-21:5	5	1/26/2021	7.54	<1	8.44
B-22	B-22:0.5	0.5	1/26/2021	<5	<1	4
	B-22:1.5	1.5	1/26/2021	<5	<1	6.18
	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	B-23:0.5	0.5	1/26/2021	6.11	<1	5.9
	B-23:1.5	1.5	1/26/2021	<5	<1	4.04
	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	B-24:0.5	0.5	1/26/2021	6.87	<1	5.96
	B-24:2	2	1/26/2021	5.36	<1	4.69
	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	B-25:0.5	0.5	1/26/2021	<5	<1	4.05
	B-25:2	2	1/26/2021	<5	<1	5.32
	B-25:2.5	2.5	1/26/2021	20.5	<1	37.1
	B-25:5	5	1/26/2021	<5	<1	6.48
B-26	B-26:0.5	0.5	1/27/2021	7.71	<1	7.57
	B-26:2	2	1/27/2021	5.22	<1	5.21
	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	B-27:0.5	0.5	1/27/2021	5.08	<1	5.16
	B-27:2	2	1/27/2021	<5	<1	5.24
	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	B-28:0.5	0.5	1/27/2021	<5	<1	5.22
	B-28:1.5	1.5	1/27/2021	<5	<1	5.7
	B-28:2	2	1/27/2021	<5	<1	5.48
	B-28:4	4	1/27/2021	10.4	<1	15.2
B-29	B-29:0.5	0.5	1/27/2021	<5	<1	4.31
	B-29:1	1	1/27/2021	8.36	<1	16.3
	B-29:3 DUP-12	3	1/27/2021	3.47	<1	3.21
	B-29:3	3	1/27/2021	14.0	<1	38.4
B-30	B-30:0.5	0.5	1/27/2021	<5	<1	2.64
	B-30:2	2	1/27/2021	7.12	<1	7.04
	B-30:3	3	1/27/2021	<5	<1	7.65
	B-30:5	5	1/27/2021	10.1	<1	10.2
B-31	B-31:0.5	0.5	1/27/2021	<5	<1	5.32
	B-31:1	1	1/27/2021	10.9	<1	24.6
	B-31:3	3	1/27/2021	6.06	<1	6.84
B-32	B-32:0.5	0.5	1/27/2021	<5	<1	4.93
	B-32:2	2	1/27/2021	5.36	<1	4.81
	B-32:3	3	1/27/2021	<5	<1	3.97
	B-32:5	5	1/27/2021	<5	<1	2.93
B-33	B-33:0.5	0.5	1/27/2021	<5	<1	2.95
	B-33:1	1	1/27/2021	<5	<1	3.35
	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	B-34:0.5	0.5	1/27/2021	9.13	<1	9.63
	B-34:0.5 DUP-14	0.5	1/27/2021	10.1	<1	8.76
	B-34:1.5	1.5	1/27/2021	<5	<1	4.54
	B-34:2.5	2.5	1/27/2021	12.2	<1	8.87
B-35	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-35:2	2	1/27/2021	<5	<1	4.44
	B-35:3	3	1/27/2021	<5	<1	9.02
B-36	B-35:5	5	1/27/2021	9.69	<1	7.45
	B-36:0.5	0.5	1/27/2021	5.34	<1	4.93
	B-36:2	2	1/27/2021	<5	<1	5.94
	B-36:4	4	1/27/2021	9.93	<1	27.1
B-37	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-37:2.5	2.5	1/27/2021	7.34	<1	6.65
	B-37:4	4	1/27/2021	<5	<1	3.23
	B-37:6	6	1/27/2021	14.0	<1	9.46
B-38	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-38:1	1	1/27/2021	<5	<1	4.86
	B-38:3	3	1/27/2021	<5	<1	2.28

Table 2
Additional Subsurface Investigation Soil Analytical Results
Cleanup Action Report
Haack Brother Homes Legion Lots Parcels
413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
B-39	B-39:0.5	0.5	1/28/2021	<5	<1	3.91
	B-39:2	2	1/28/2021	<5	<1	4.16
	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	7	1/28/2021	8.11	<1	5.98
B-40	B-40:0.5	0.5	1/28/2021	10.5	<1	14.3
	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	<1	10.7
B-41	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-41:2.5	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	<1	5.65
B-42	B-42:0.5	0.5	1/28/2021	<5	<1	3.81
	B-42:2	2	1/28/2021	<5	<1	4.44
	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	B-43:0.5	0.5	1/28/2021	<5	<1	4.43
	B-43:2	2	1/28/2021	<5	<1	8.38
	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	B-44:0.5	0.5	1/28/2021	13.8	<1	9.37
	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	6	1/28/2021	8.97	<1	7.4
B-45	B-45:1	1	1/28/2021	5.02	<1	5.52
	B-45:1 DUP-18	1	1/28/2021	<5	<1	4.40
	B-45:3	3	1/28/2021	5.09	<1	6.03
	B-45:4	4	1/28/2021	<5	<1	11.3
	B-45:6	6	1/28/2021	7.29	<1	5.61
B-46	B-46:0.5	0.5	1/28/2021	5.16	<1	4.8
	B-46:2	2	1/28/2021	<5	<1	3.77
	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	B-47:0.5	0.5	1/28/2021	6.81	<1	6.86
	B-47:0.5 DUP-19	0.5	1/28/2021	5.36	<1	5.41
	B-47:2	2	1/28/2021	8.27	<1	9.04
	B-47:2.5	2.5	1/28/2021	<5	<1	4.61
	B-47:4.5	4.5	1/28/2021	<5	<1	5.81
B-48	B-48:1	1	1/28/2021	6.85	<1	7.46
	B-48:3	3	1/28/2021	<5	<1	4.51
	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	B-49:1	1	1/28/2021	5.47	<1	5.7
	B-49:3	3	1/28/2021	<5	<1	6.59
	B-49:5	5	1/28/2021	5.42	<1	6.1
	B-49:7	7	1/28/2021	<5	<1	4.84
	B-49:7 DUP-20	7	1/28/2021	7.39	<1	8.66
B-50	B-50:0.5	0.5	1/28/2021	<5	<1	4.89
	B-50:2.5	2.5	1/28/2021	6.37	<1	6.99
	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	B-51:0.5	0.5	1/28/2021	7.37	<1	6.4
	B-51:2	2	1/28/2021	<5	<1	2.98
	B-51:5	5	1/28/2021	<5	<1	4.23
	B-51:7	7	1/28/2021	<5	<1	4.94
B-52	B-52:0.5	0.5	1/28/2021	<5	<1	3.67
	B-52:2	2	1/28/2021	7.95	<1	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	<5	<1	4.84
B-53	B-53:0.5	0.5	1/28/2021	<5	<1	4.10
	B-53:2.5	2.5	1/28/2021	7.80	<1	7.89
	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	B-54:0.5	0.5	1/29/2021	<5	<1	6.27
	B-54:2.5	2.5	1/29/2021	<5	<1	4.16
	B-54:2.5 DUP-22	2.5	1/29/2021	5.07	<1	4.56
	B-54:4	4	1/29/2021	<5	<1	1.97
	B-54:6	6	1/29/2021	7.44	<1	7.09

Table 2
Additional Subsurface Investigation Soil Analytical Results
Cleanup Action Report
Haack Brother Homes Legion Lots Parcels
413 & 419 Rockefeller Avenue, Everett, Washington

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
B-55	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-55:3	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	B-56:0.5	0.5	1/29/2021	<5	<1	4.84
	B-56:2	2	1/29/2021	<5	<1	5.89
	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	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-57:2	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	B-58:0.5	0.5	1/29/2021	8.5	<1	7.68
	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	B-59:0.5	0.5	1/29/2021	5.86	<1	5.44
	B-59:1.5	1.5	1/29/2021	<5	<1	4.89
	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	B-60:0.5	0.5	1/29/2021	<5	<1	3.44
	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^b				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.

Table 3
Remedial Excavation Soil Analytical Results
Cleanup Action Report
Haack Brother Homes Legion Lots Parcels
413 & 419 Rockefeller Avenue, Everett, Washington

	Sample Location	Sample Depth (feet)	Sample Date	Final Performance Sample	Total Metals ^a							
					Arsenic	Cadmium	Lead	Barium	Chromium	Mercury	Selenium	Silver
Excavation Area 1	B1B-1:1.5	1.5	10/27/2021	X	8.45	--	--	--	--	--	--	--
	B1B-2:1.5	1.5	10/27/2021		27.1	--	--	--	--	--	--	--
	B1B-2:2.5	2.5	10/29/2021	X	10.1	--	--	--	--	--	--	--
	B1SW-E:0.5	0.5	10/27/2021	X	17.1	--	--	--	--	--	--	--
	B1SW-N: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	X	9.82	--	--	--	--	--	--	--
Excavation Area 2	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	--	--	--	--	--	--	--
	B14SW-E:3	3	10/27/2021	X	4.30	--	4.85	--	--	--	--	--
	B14SW-N:3	3	10/27/2021	X	4.74	--	--	--	--	--	--	--
	B14SW-S:3	3	10/27/2021	X	4.48	--	--	--	--	--	--	--
	B14SW-W:3	3	10/27/2021	X	14.4	--	--	--	--	--	--	--
	B15-1:3	3	10/27/2021		34.0	1.43	622	189	27.4	<1	<1	2.14
	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	--	--	--	--	--	--	--
	B15SW-N:3	3	10/29/2021	X	3.97	--	4.26	--	--	--	--	--
	B15SW-S:3	3	10/29/2021	X	4.94	--	21.5	--	--	--	--	--
	B15SW-W:3	3	10/29/2021	X	18.1	--	119	--	--	--	--	--
Excavation Area 3	B11-1:3	3	10/27/2021	X	9.93	<1	24.1	89.6	33.8	<1	<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	3	10/28/2021	X	--	--	5.26	--	--	--	--	--
	B11SW-W:3	3	10/28/2021	X	--	--	9.49	--	--	--	--	--
	B19-1:3	3	10/27/2021		20.6	<1	56.0	135	25.3	<1	<1	<1
	B19B-1:4	4	10/29/2021	X	2.48	--	--	--	--	--	--	--
	B19B-2:4	4	10/29/2021	X	4.20	--	--	--	--	--	--	--
	B19SW-E:3	3	10/29/2021	X	19.6	--	--	--	--	--	--	--
	B19SW-N:3	3	10/29/2021		110	--	--	--	--	--	--	--
	B19SW2-N:3	3	11/2/2021	X	6.69	--	--	--	--	--	--	--
	B19SW-S:3	3	10/29/2021	X	2.39	--	--	--	--	--	--	--
	B19SW-W:3	3	10/29/2021	X	18.9	--	--	--	--	--	--	--
	B21-1:3	3	10/27/2021		28.5	<1	121	129	30.2	<1	<1	<1
	B21B-1:4	4	10/28/2021	X	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	X	<5	--	--	--	--	--	--	--	
B21SW-W:3	3	10/28/2021	X	17.3	--	149	--	--	--	--	--	
Excavation Area 4	B24B-1:6	6	10/27/2021	X	13.3	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
	B24SW-W:5	5	10/27/2021	X	6.33	--	--	--	--	--	--	--
	B25B-1:3.5	3.5	10/29/2021	X	11.9	--	--	--	--	--	--	--
	B25B-2:3.5	3.5	10/29/2021		24.8	--	--	--	--	--	--	--
	B25B-2:4.5	4.5	11/2/2021	X	<5	--	--	--	--	--	--	--
	B25SW-N:2.5	2.5	10/29/2021	X	4.86	--	--	--	--	--	--	--
B25SW-S:2.5	2.5	10/29/2021	X	14.1	--	--	--	--	--	--	--	
B25SW-W:2.5	2.5	10/29/2021	X	4.52	--	--	--	--	--	--	--	
Excavation Area 5	B41B-1:3.5	3.5	10/27/2021	X	--	<1	--	--	--	--	--	--
	B41B-2:3.5	3.5	10/27/2021	X	--	1.06	--	--	--	--	--	--
	B41SW-E:2.5	2.5	10/27/2021	X	--	<1	--	--	--	--	--	--
	B41SW-N:02.5	2.5	10/27/2021	X	--	<1	--	--	--	--	--	--
	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	X	10.7	--	--	--	--	--	--	--
	B56SW-N:3	3	10/28/2021		26.3	--	--	--	--	--	--	--
	B56SW-S:3	3	10/28/2021	X	6.73	--	--	--	--	--	--	--
	B56SW-W:3	3	10/28/2021	X	11.9	--	--	--	--	--	--	--
	B56SW2-N:3	3	11/2/2021	X	1.08	--	--	--	--	--	--	--
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses^b					20	2	250	16,000^c	2,000	2	400^c	400^c

Notes:

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

Bold Bold results exceed the laboratory reporting limit.

Shaded Shaded results exceed the cleanup level.

< Result is less than the laboratory method detection limit.

-- Indicates sample was not analyzed for this analyte.

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.

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

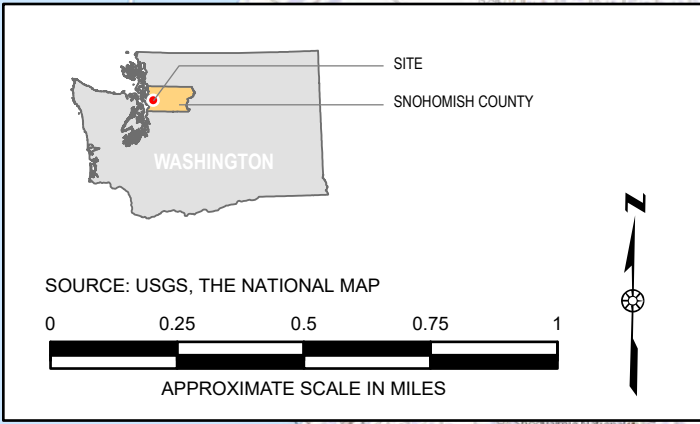
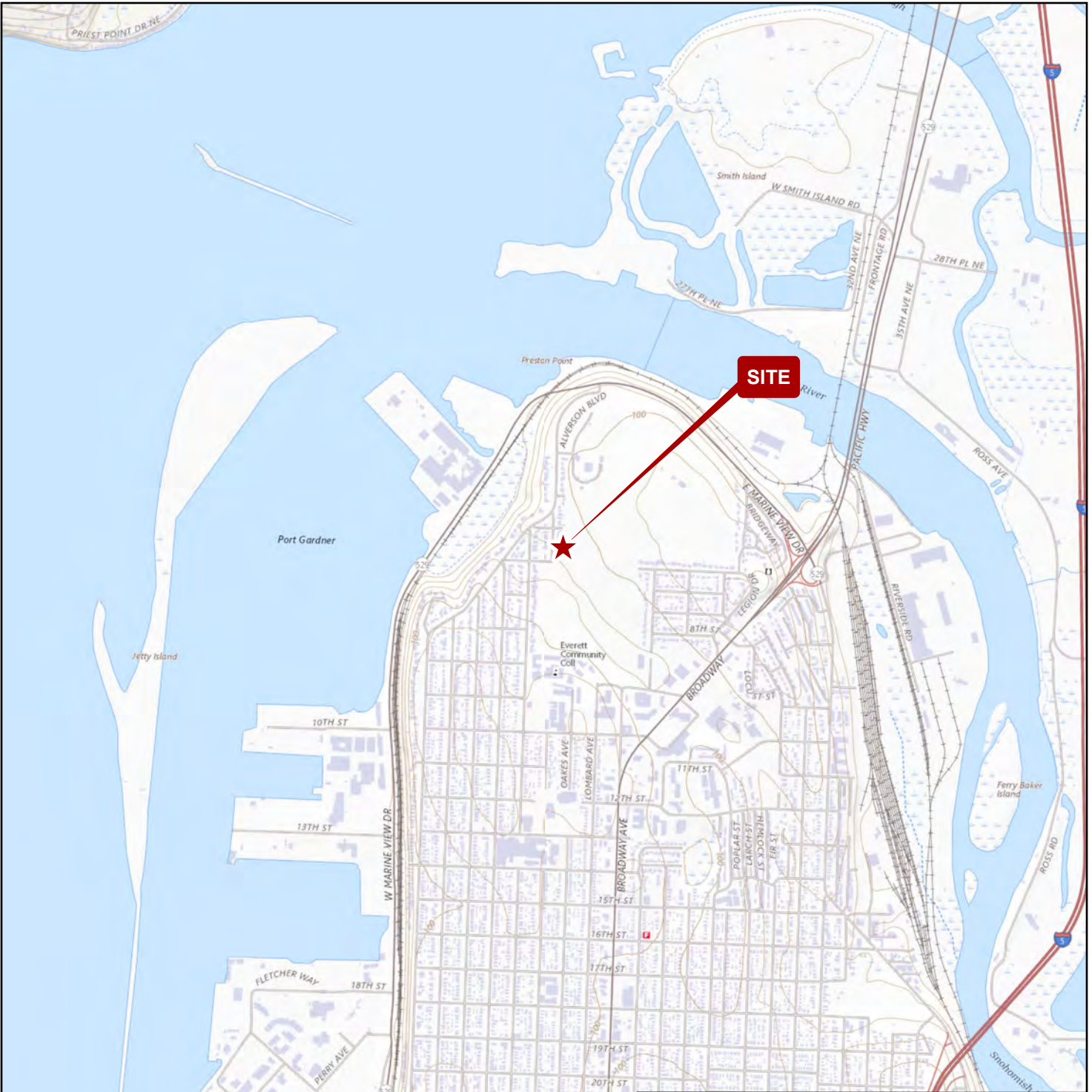
Notes:

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

< Result is less than the laboratory method detection limit.

a Analyzed by EPA Method 1311.

Figures



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FIGURE 1
GENERAL VICINITY MAP

REPORT
 CLEANUP ACTION REPORT

PREPARED FOR
 HAACK BROTHERS HOMES

PROJECT NUMBER
 424198.0001.0000

LOCATION
 413 AND 419 ROCKEFELLER AVE
 EVERETT, WASHINGTON

DATE 1/10/22
DRAWN BY KPC
REVIEWED BY WRW



NOTES:

- APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY
- APPROXIMATE LOCATION OF PROPERTY PERIMETER FENCE

AERIAL IMAGERY: MAXAR, MICROSOFT (2021)
 PARCEL INFORMATION: SNOHOMISH COUNTY (2021)

30 15 0 30

APPROXIMATE SCALE IN FEET

1180 NW MAPLE ST, SUITE 310
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FIGURE 2
SITE REPRESENTATION

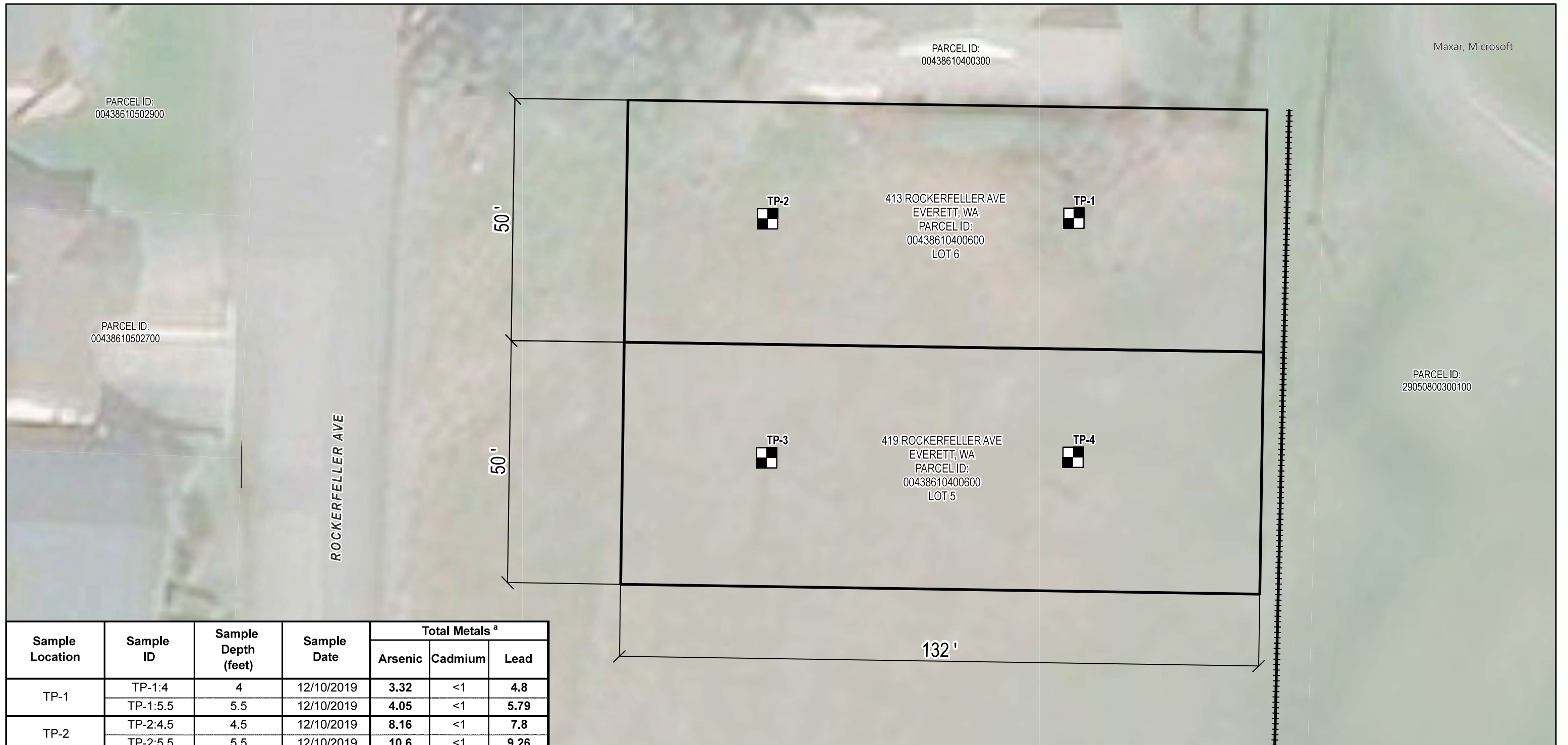
REPORT
CLEANUP ACTION REPORT

PREPARED FOR
HAACK BROTHERS HOMES

PROJECT NUMBER
424198.0001.0000

LOCATION
413 AND 419 ROCKERFELLER AVENUE
EVERETT, WASHINGTON

DATE1/17/22
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Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Total Metals ^a		
				Arsenic	Cadmium	Lead
TP-1	TP-1:4	4	12/10/2019	3.32	<1	4.8
	TP-1:5.5	5.5	12/10/2019	4.05	<1	5.79
TP-2	TP-2:4.5	4.5	12/10/2019	8.16	<1	7.8
	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
	TP-3:7	7	12/10/2019	8.94	<1	9.58
TP-4	TP-4:4.5	4.5	12/10/2019	12.5	<1	17.8
	TP-4:5.5	5.5	12/10/2019	4.0	<1	3.96
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses^b				20	2	250

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

Bold Bold results exceed the laboratory reporting 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.

NOTES:

- APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY
- APPROXIMATE LOCATION OF PROPERTY PERIMETER FENCE
- APPROXIMATE TEST PIT LOCATION

AERIAL IMAGERY: MAXAR, MICROSOFT (2021)
PARCEL INFORMATION: SNOHOMISH COUNTY (2021)

20 10 0 20

APPROXIMATE SCALE IN FEET

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FIGURE 3
TEST PIT SOIL ANALYTICAL RESULTS

REPORT: CLEANUP ACTION REPORT

PREPARED FOR: HAACK BROTHERS HOMES

PROJECT NUMBER: 424198.0001.0000

LOCATION: 413 AND 419 ROCKEFELLER AVENUE EVERETT, WASHINGTON

DATE: 1/17/22

DRAWN BY: KPC

REVIEWED BY: WRW

PARCEL ID:
00438610400300

PARCEL ID:
00438610502900

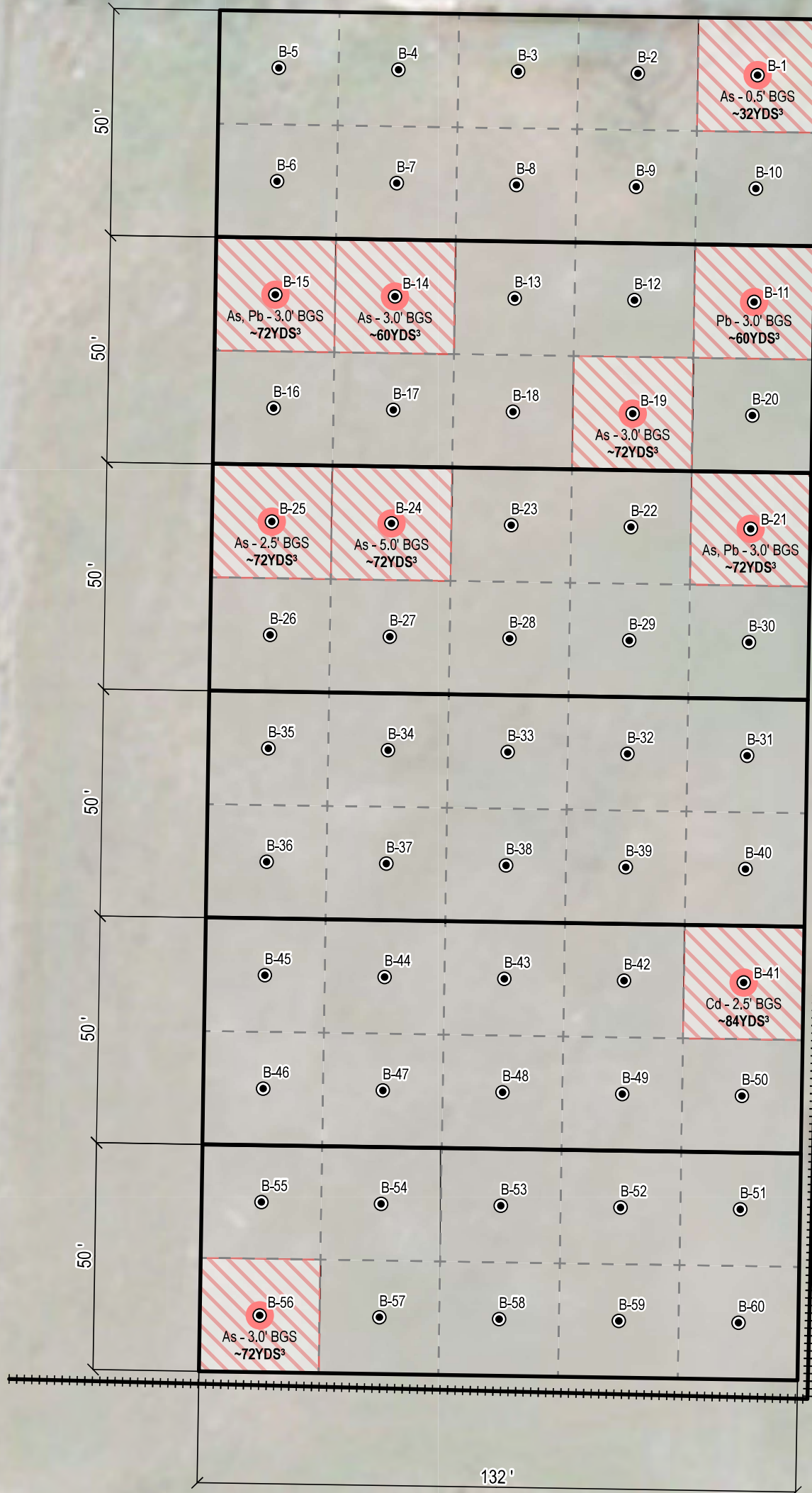
PARCEL ID:
00438610502700

PARCEL ID:
00438610502200

PARCEL ID:
00438610501800

PARCEL ID:
29050800300100

ROCKERFELLER AVE



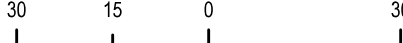
NOTES:

- SOIL BORING LOCATION
- SOIL BORING LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
- - - SAMPLING GRID LAYOUT, ESTABLISHED USING
- - - EVERETT SMELTER PLUME (ESP) GUIDANCE
- ▨ APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
- ▭ APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY
- ⚡ APPROXIMATE LOCATION OF PROPERTY PERIMETER FENCE

As - 0.5' BGS CONTAMINANT OF CONCERN AT APPROXIMATE DEPTH IN FEET BELOW GROUND SURFACE (BGS)

- As ARSENIC
- Cd CADMIUM
- Pb LEAD

TOTAL ESTIMATED SOIL VOLUME ~670 YDS³



APPROXIMATE SCALE IN FEET



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FIGURE 4
ADDITIONAL SUB-SURFACE INVESTIGATION IN SOIL ANALYTICAL RESULTS

REPORT
CLEANUP ACTION REPORT

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HAACK BROTHERS HOMES

PROJECT NUMBER
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LOCATION
413 AND 419 ROCKERFELLER AVENUE
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NOTES:


- SOIL BORING LOCATION
- SOIL BORING LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
- SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
- ▨ APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
- ▭ APPROXIMATE REMEDIATION AREAS
- ▭ APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY
- ⊢ APPROXIMATE LOCATION OF PROPERTY PERIMETER FENCE

As - 0.5' BGS	CONTAMINANT OF CONCERN AT APPROXIMATE DEPTH IN FEET BELOW GROUND SURFACE (BGS)
As	ARSENIC
Cd	CADMIUM
Pb	LEAD

TOTAL ESTIMATED SOIL VOLUME ~670 YDS³

30 15 0 30

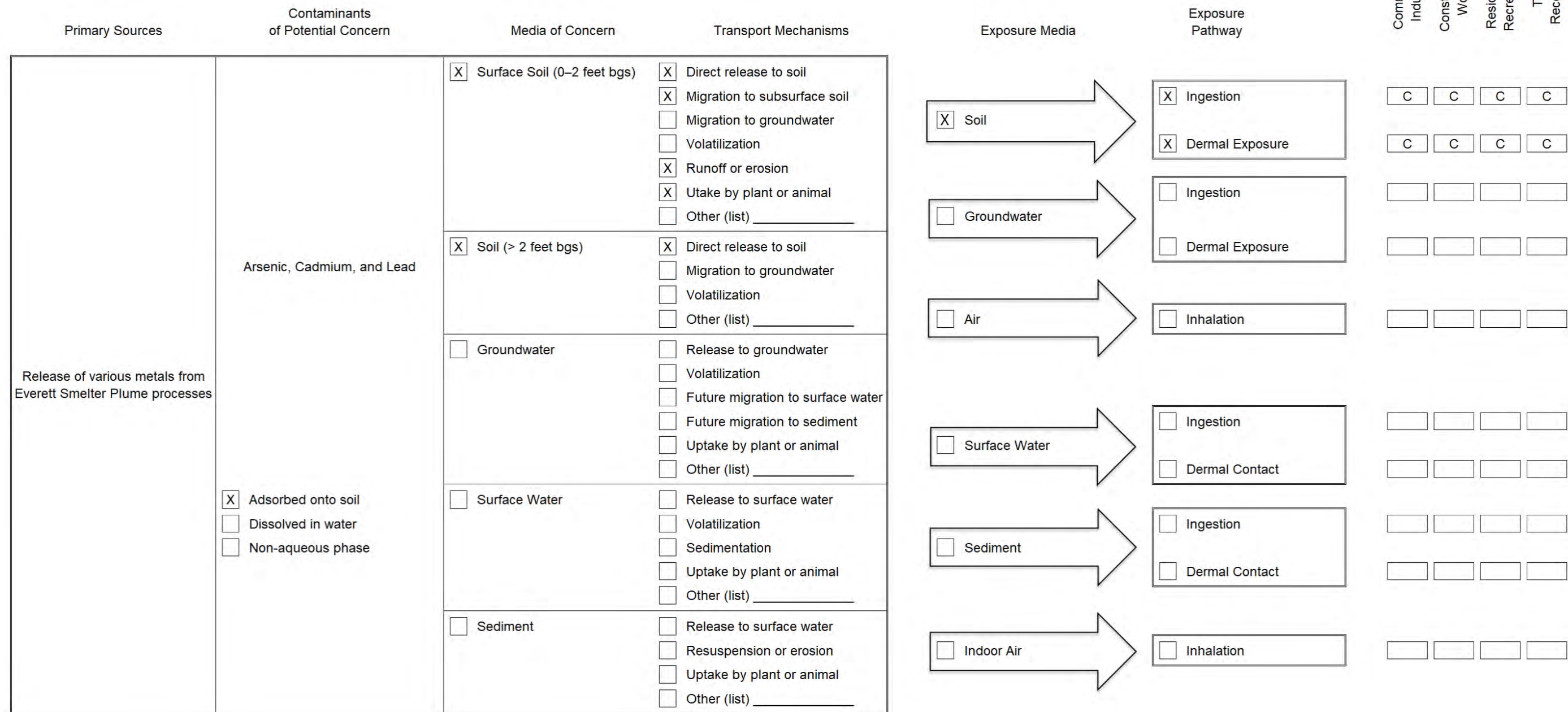
APPROXIMATE SCALE IN FEET



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FIGURE 5
REMEDIAL EXCAVATION AREAS

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LOCATION 413 AND 419 ROCKEFELLER AVENUE EVERETT, WASHINGTON	PROJECT NUMBER 424198.0001.0000
DATE 1/10/22	DRAWN BY KPC
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NOTES:

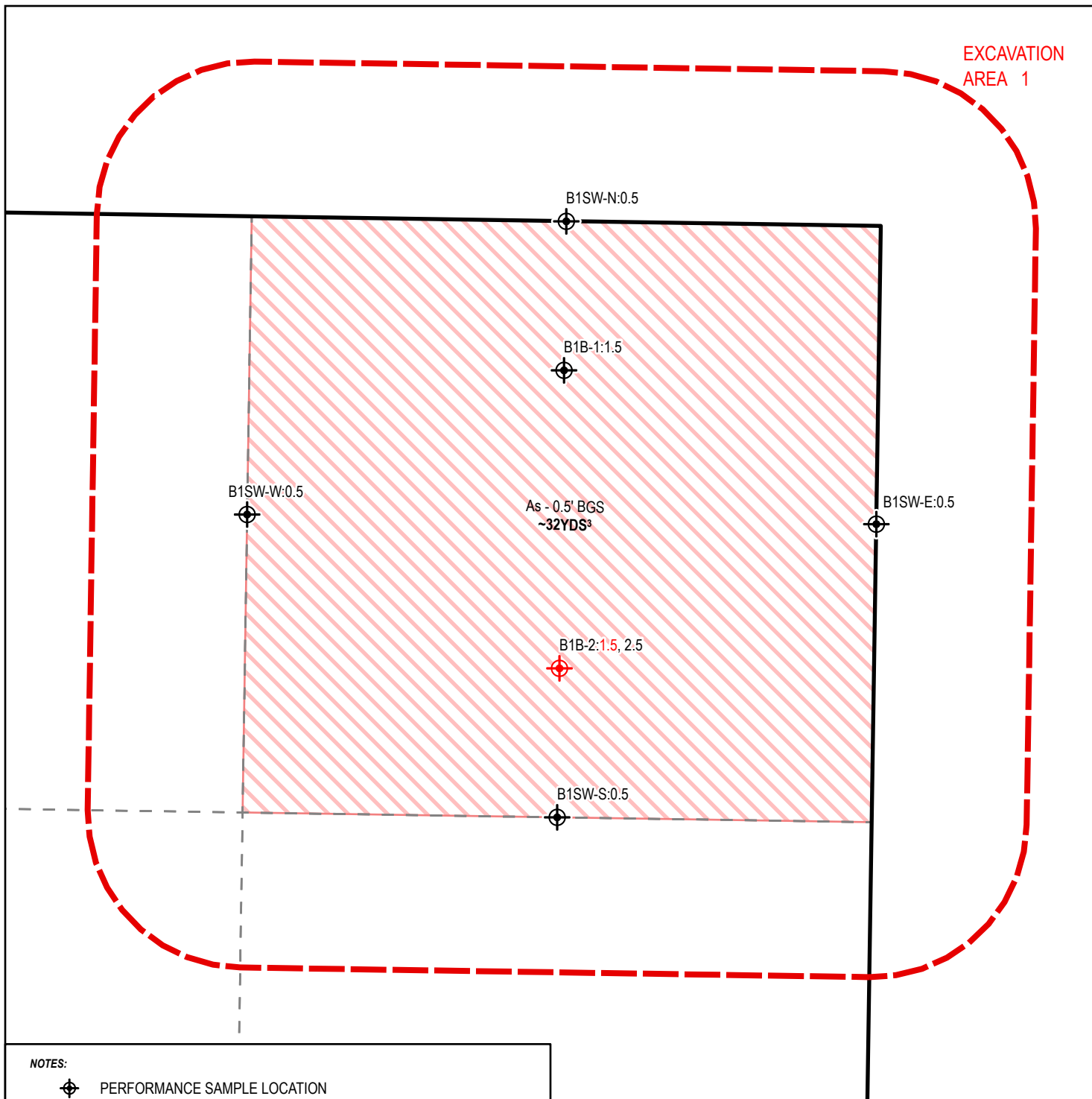
bgs BELOW GROUND SURFACE

TRC 1180 NW MAPLE ST, SUITE 310
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FIGURE 6
CONCEPTUAL SITE MODEL

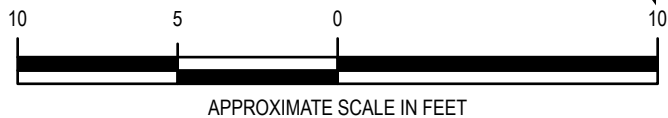
REPORT CLEANUP ACTION REPORT	PREPARED FOR HAACK BROTHERS HOMES
	PROJECT NUMBER 424198.0001.0000
LOCATION 413 AND 419 ROCKEFELLER AVENUE EVERETT, WASHINGTON	DATE 1/17/22 DRAWN BY KPC REVIEWED BY WRW

EXCAVATION
AREA 1



NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 7
EXCAVATION AREA 1 - ALL SOIL SAMPLES

REPORT
CLEANUP ACTION REPORT

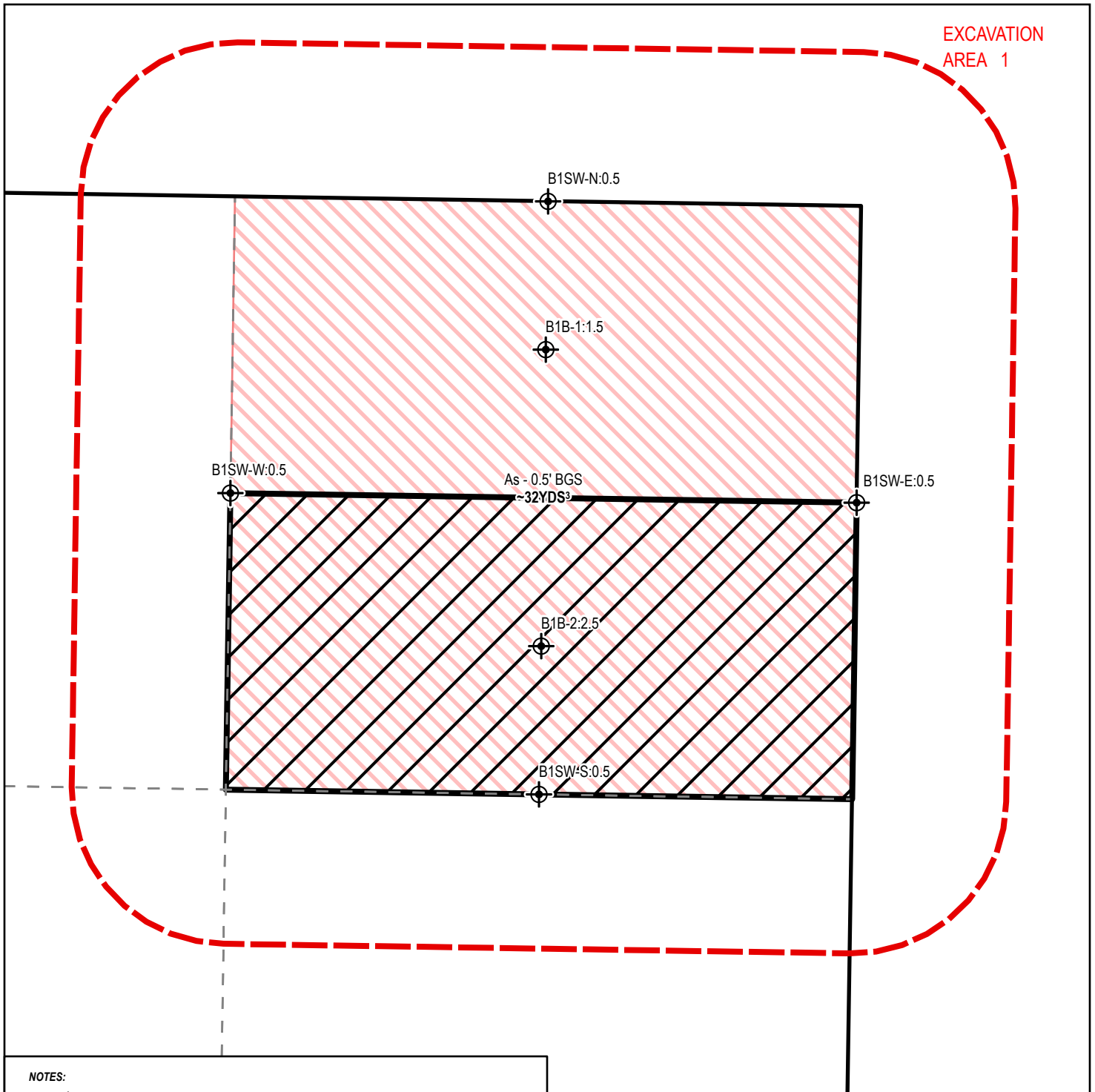
PREPARED FOR
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PROJECT NUMBER
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LOCATION
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EVERETT, WASHINGTON

DATE 1/10/22
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EXCAVATION
AREA 1



NOTES:

- FINAL PERFORMANCE SAMPLE LOCATION
- SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
- APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
- APPROXIMATE REMEDIATION AREAS
- AREA EXCAVATED TO A TOTAL DEPTH OF 2.5'
- APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



SW-N:3



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FIGURE 8
EXCAVATION AREA 1 - FINAL PERFORMANCE
SAMPLES

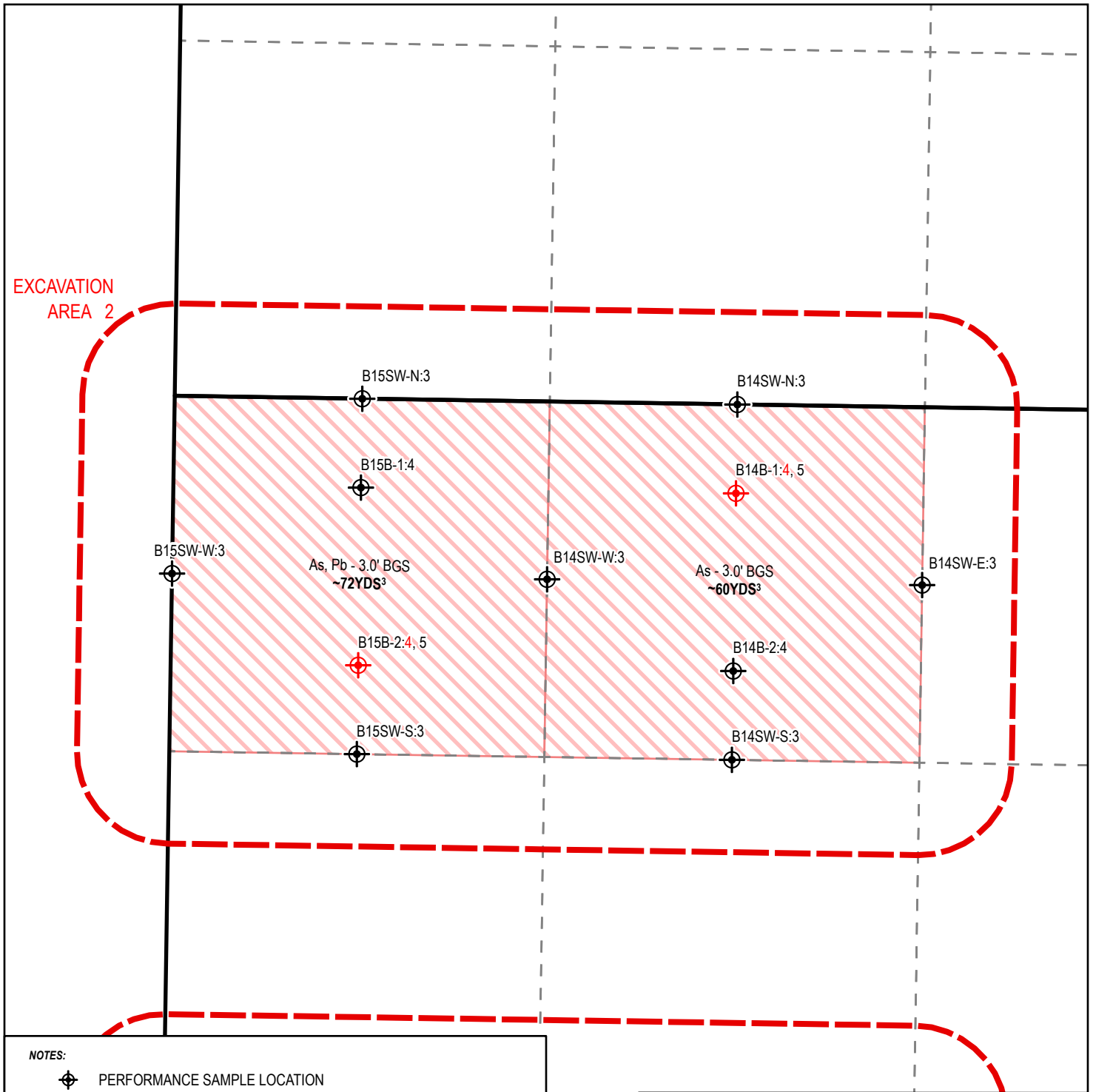
REPORT
CLEANUP ACTION REPORT

PREPARED FOR
HAACK BROTHERS HOMES







PROJECT NUMBER
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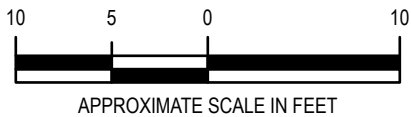
LOCATION
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NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



B14SW-W:5
As - 5.0' BGS
~72YDS³



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FIGURE 9
EXCAVATION AREA 2 - ALL SOIL SAMPLES

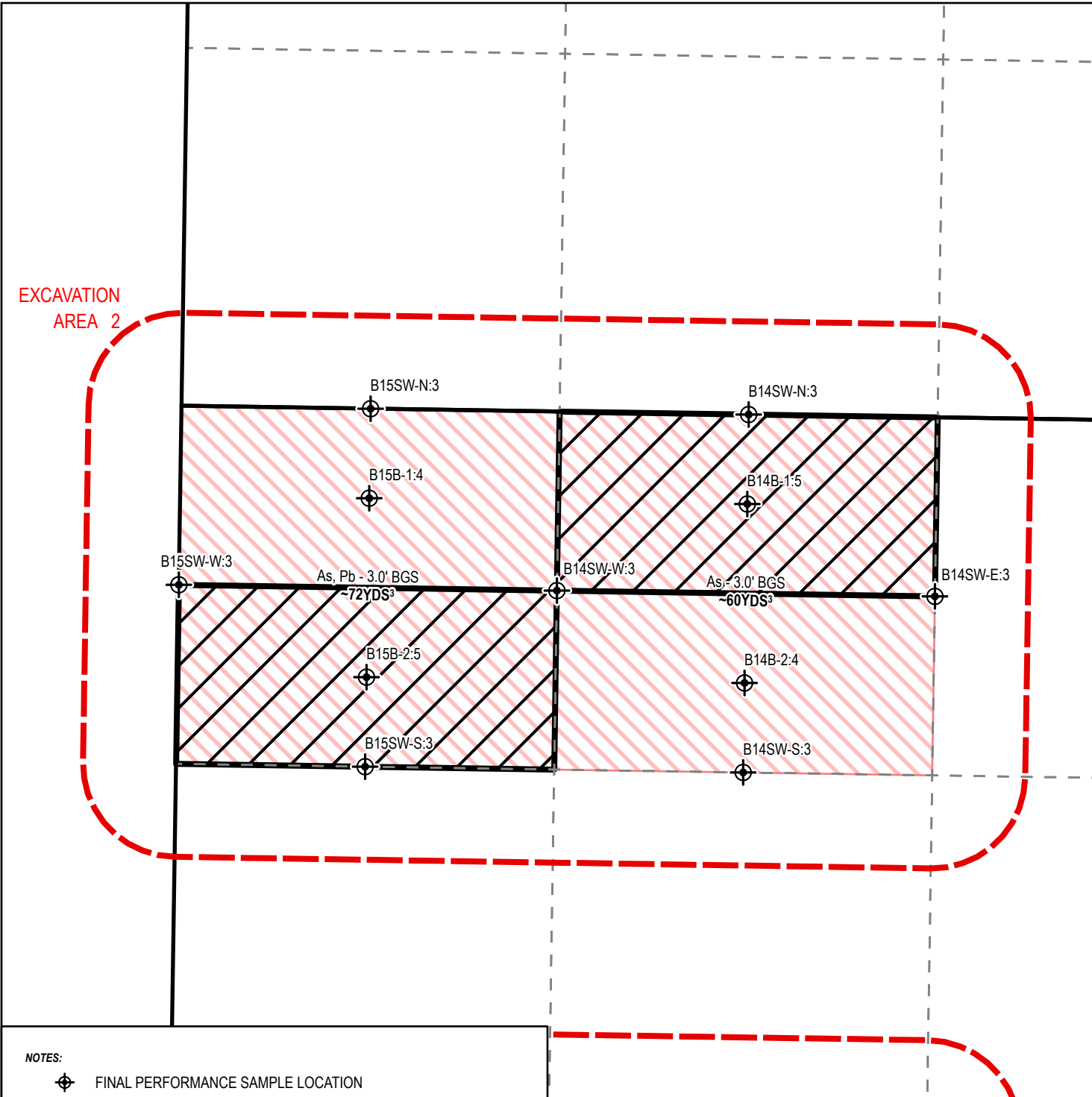
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PROJECT NUMBER
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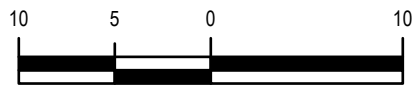
LOCATION
413 AND 419 ROCKEFELLER AVENUE
EVERETT, WASHINGTON

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NOTES:

- FINAL PERFORMANCE SAMPLE LOCATION
- SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
- APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
- APPROXIMATE REMEDIATION AREAS
- AREA EXCAVATED TO A TOTAL DEPTH OF 5'
- APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



APPROXIMATE SCALE IN FEET



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FIGURE 10
 EXCAVATION AREA 2 - FINAL PERFORMANCE
 SAMPLES

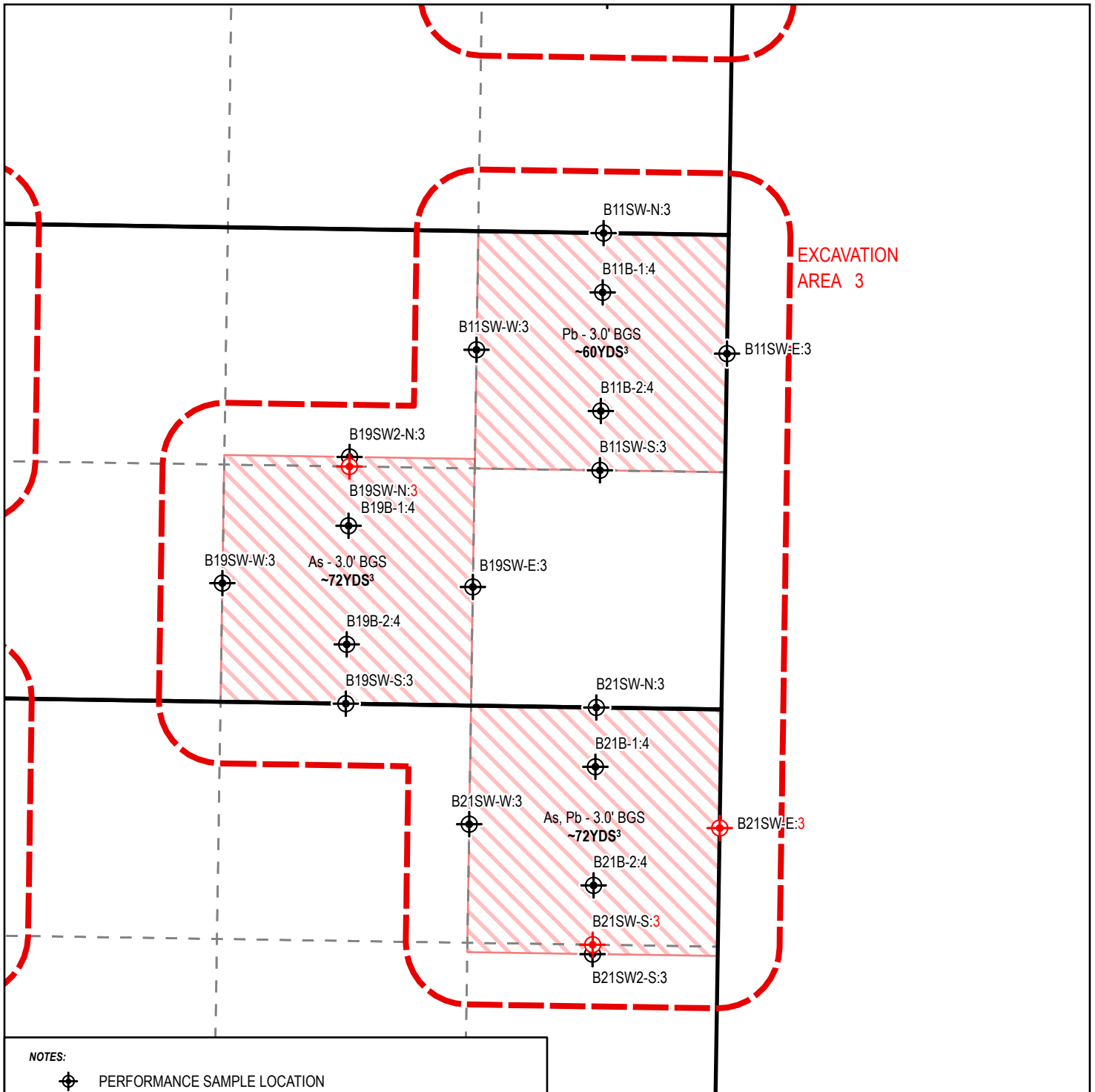
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EXCAVATION
AREA 3

NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 11
EXCAVATION AREA 3 - ALL SOIL SAMPLES

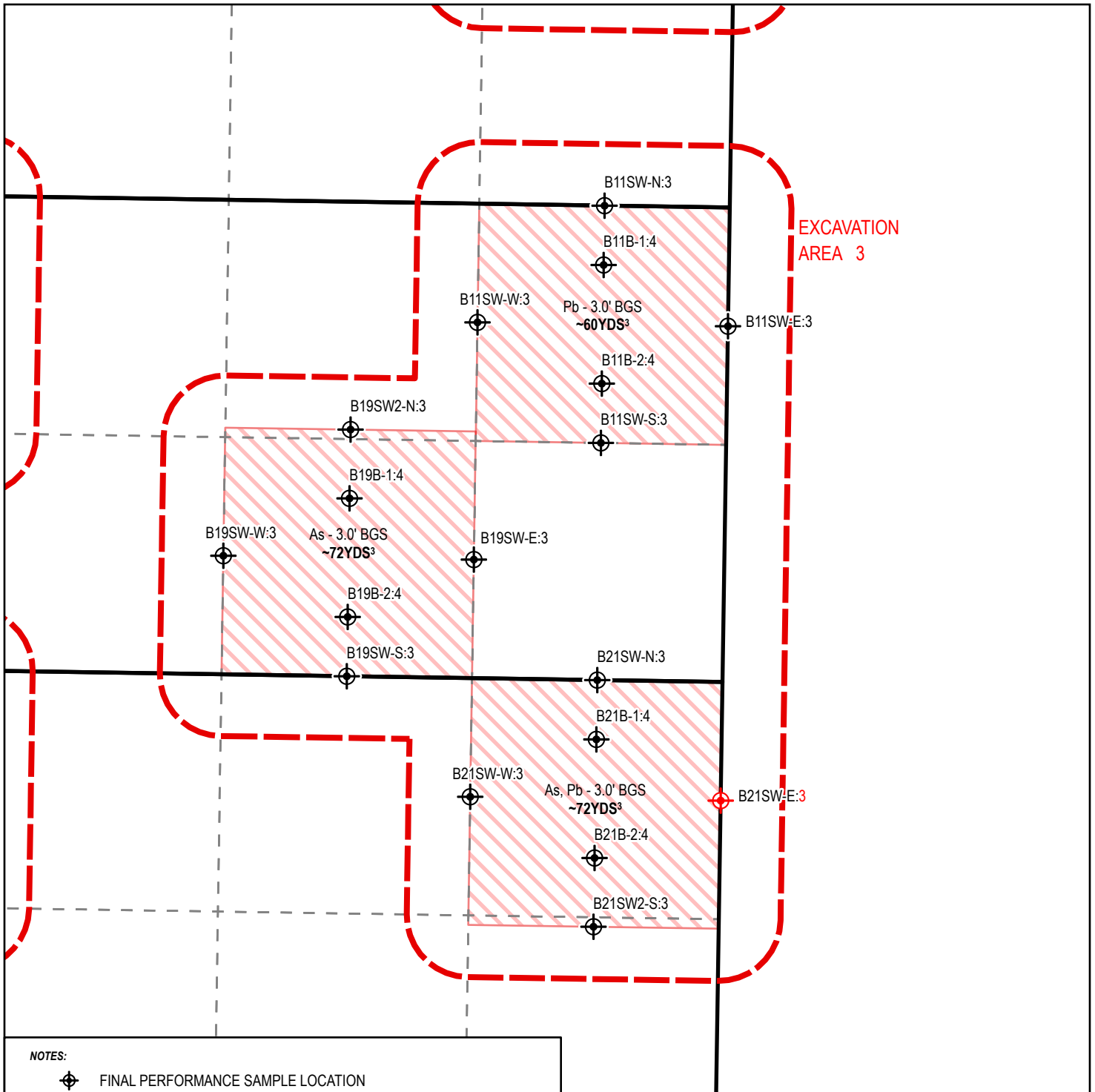
REPORT
CLEANUP ACTION REPORT

PREPARED FOR
HAACK BROTHERS HOMES

PROJECT NUMBER
424198.0001.0000







LOCATION
413 AND 419 ROCKEFELLER AVENUE
EVERETT, WASHINGTON

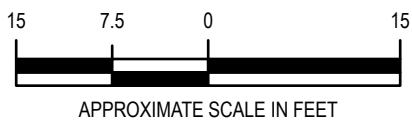
DATE 1/10/22
DRAWN BY KPC
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EXCAVATION
AREA 3

NOTES:

-  FINAL PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 12
EXCAVATION AREA 3 - FINAL PERFORMANCE
SAMPLES

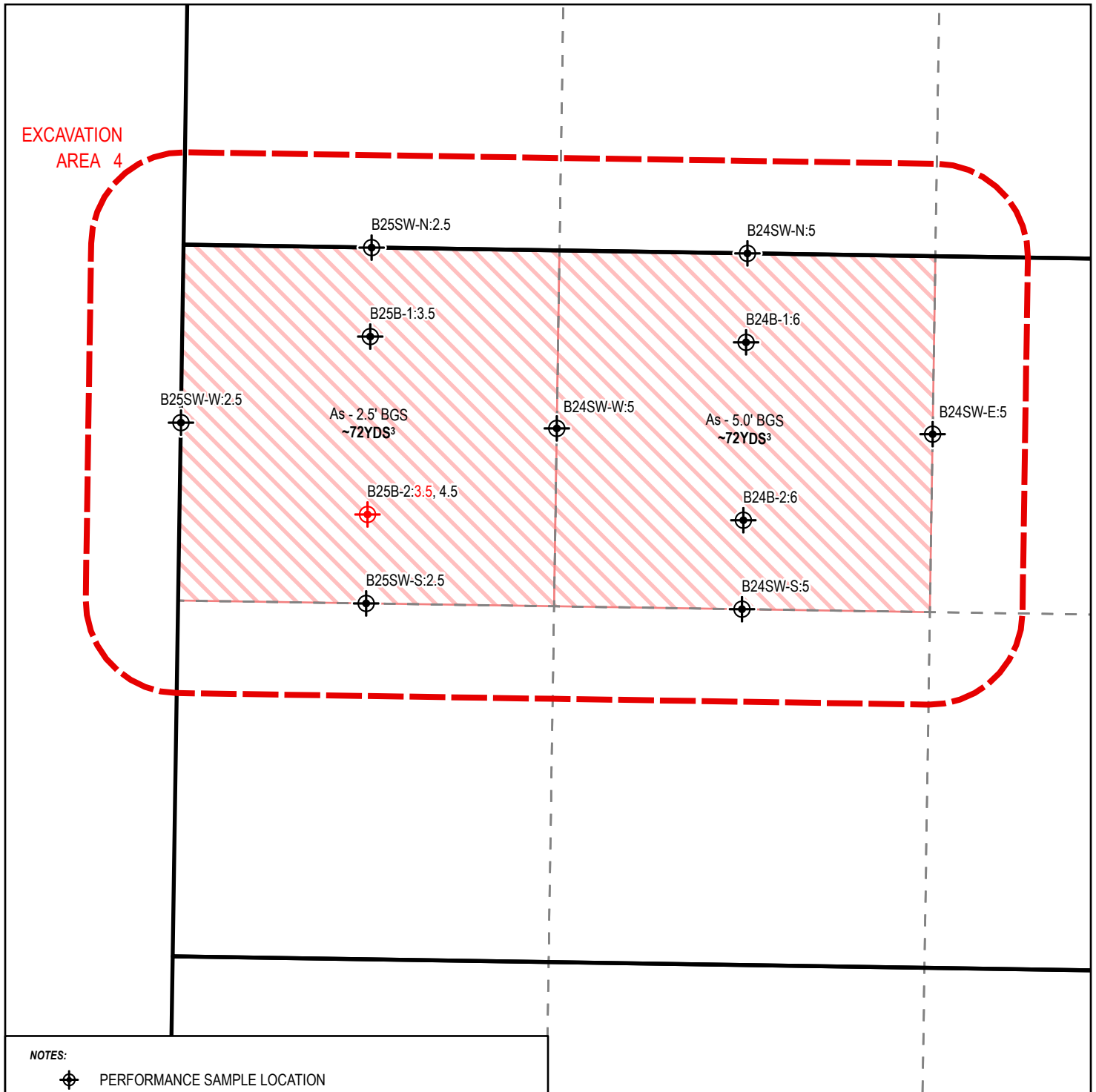
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CLEANUP ACTION REPORT

PREPARED FOR
HAACK BROTHERS HOMES







PROJECT NUMBER
424198.0001.0000

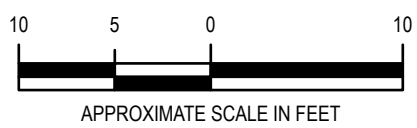
LOCATION
413 AND 419 ROCKEFELLER AVENUE
EVERETT, WASHINGTON

DATE 1/10/22
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NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 13
 EXCAVATION AREA 4 - ALL SOIL SAMPLES

REPORT
 CLEANUP ACTION REPORT

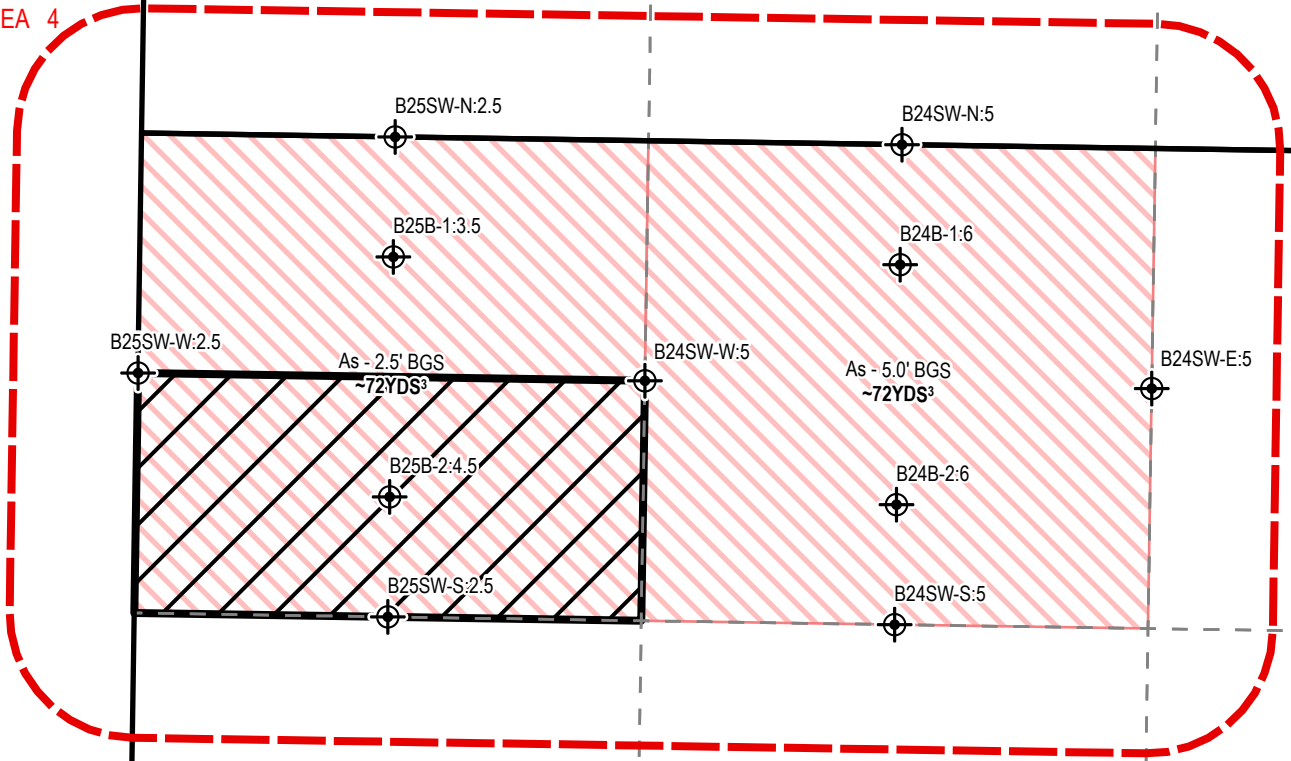
PREPARED FOR
 HAACK BROTHERS HOMES

PROJECT NUMBER
 424198.0001.0000

LOCATION
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 EVERETT, WASHINGTON

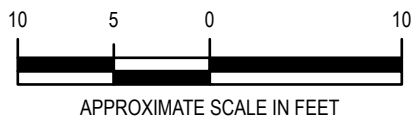
DATE 1/10/22
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EXCAVATION
AREA 4



NOTES:

- FINAL PERFORMANCE SAMPLE LOCATION
- SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
- APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
- APPROXIMATE REMEDIATION AREAS
- AREA EXCAVATED TO A TOTAL DEPTH OF 4.5'
- APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 14
EXCAVATION AREA 4 - FINAL PERFORMANCE
SAMPLES

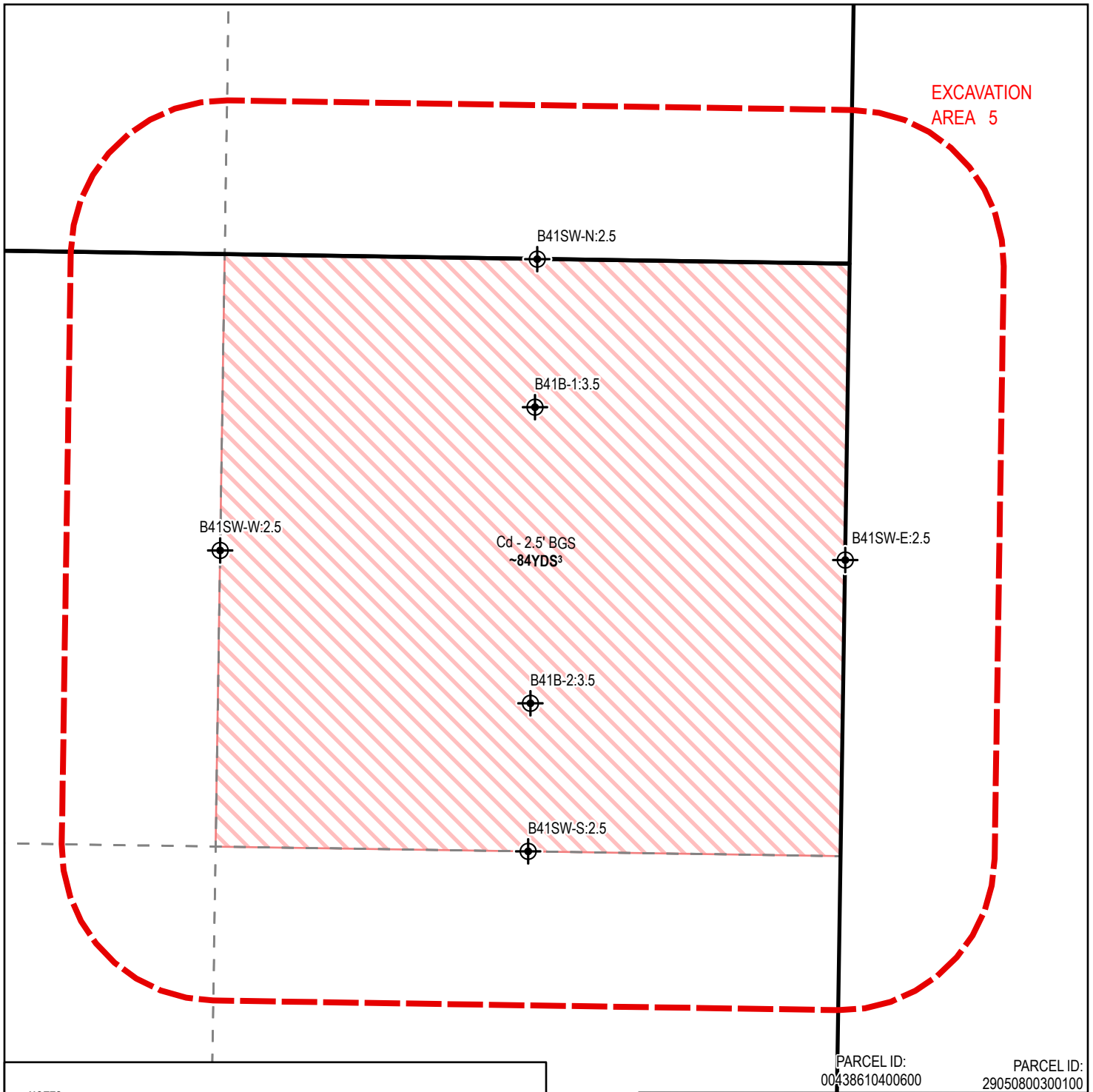
REPORT
CLEANUP ACTION REPORT

PREPARED FOR
HAACK BROTHERS HOMES






PROJECT NUMBER
424198.0001.0000

LOCATION
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NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



APPROXIMATE SCALE IN FEET

PARCEL ID: 00438610400600 PARCEL ID: 29050800300100



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FIGURE 15
 EXCAVATION AREA 5 - ALL / FINAL PERFORMANCE
 SOIL SAMPLES

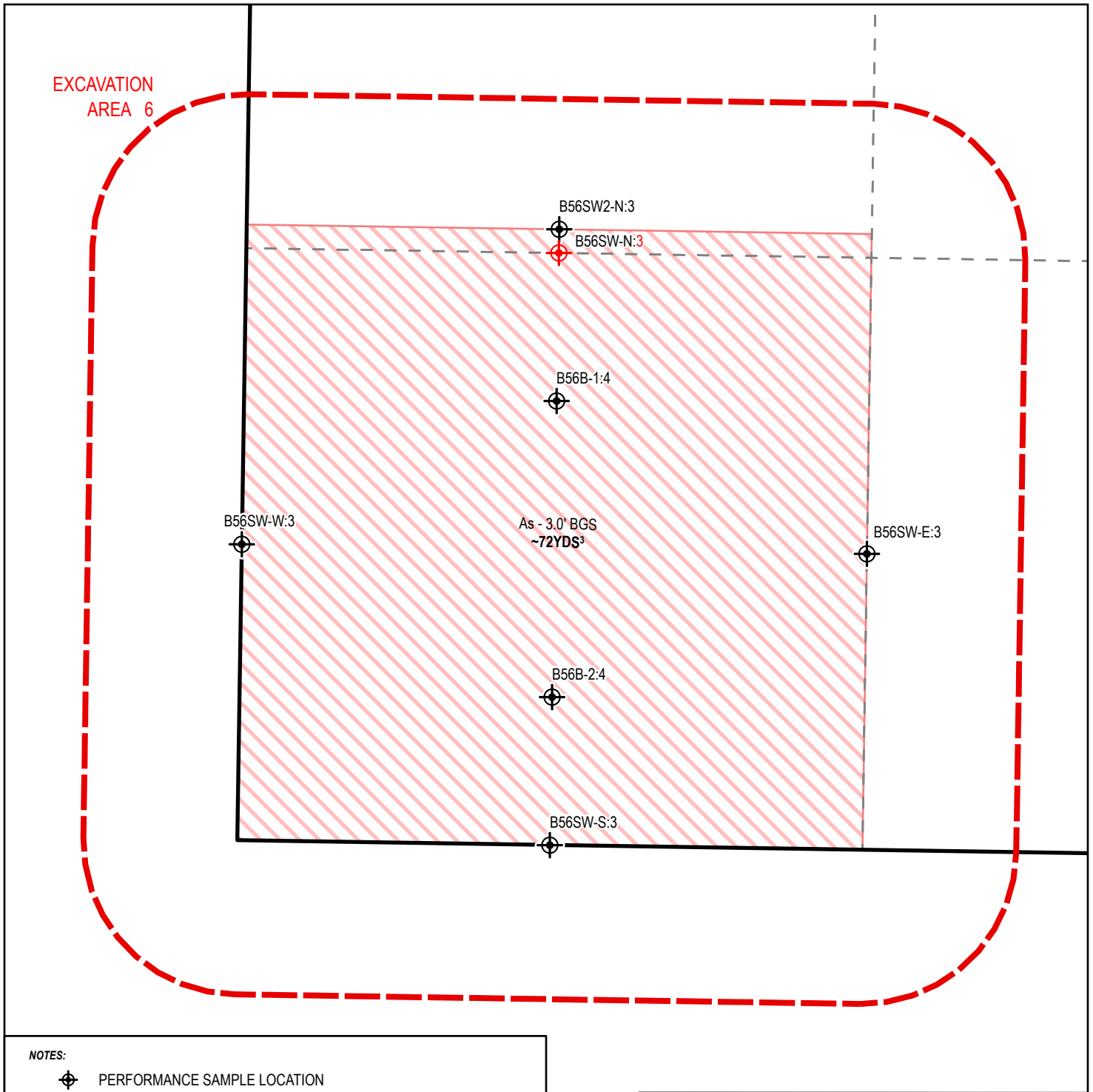
REPORT
 CLEANUP ACTION REPORT

PREPARED FOR
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PROJECT NUMBER
 424198.0001.0000

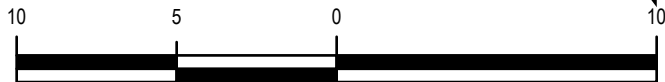
LOCATION
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NOTES:

-  PERFORMANCE SAMPLE LOCATION
-  PERFORMANCE SAMPLE LOCATION WITH CONCENTRATION EXCEEDING A MTCA METHOD A CLEANUP LEVELS
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 16
 EXCAVATION AREA 6 - ALL SOIL SAMPLES

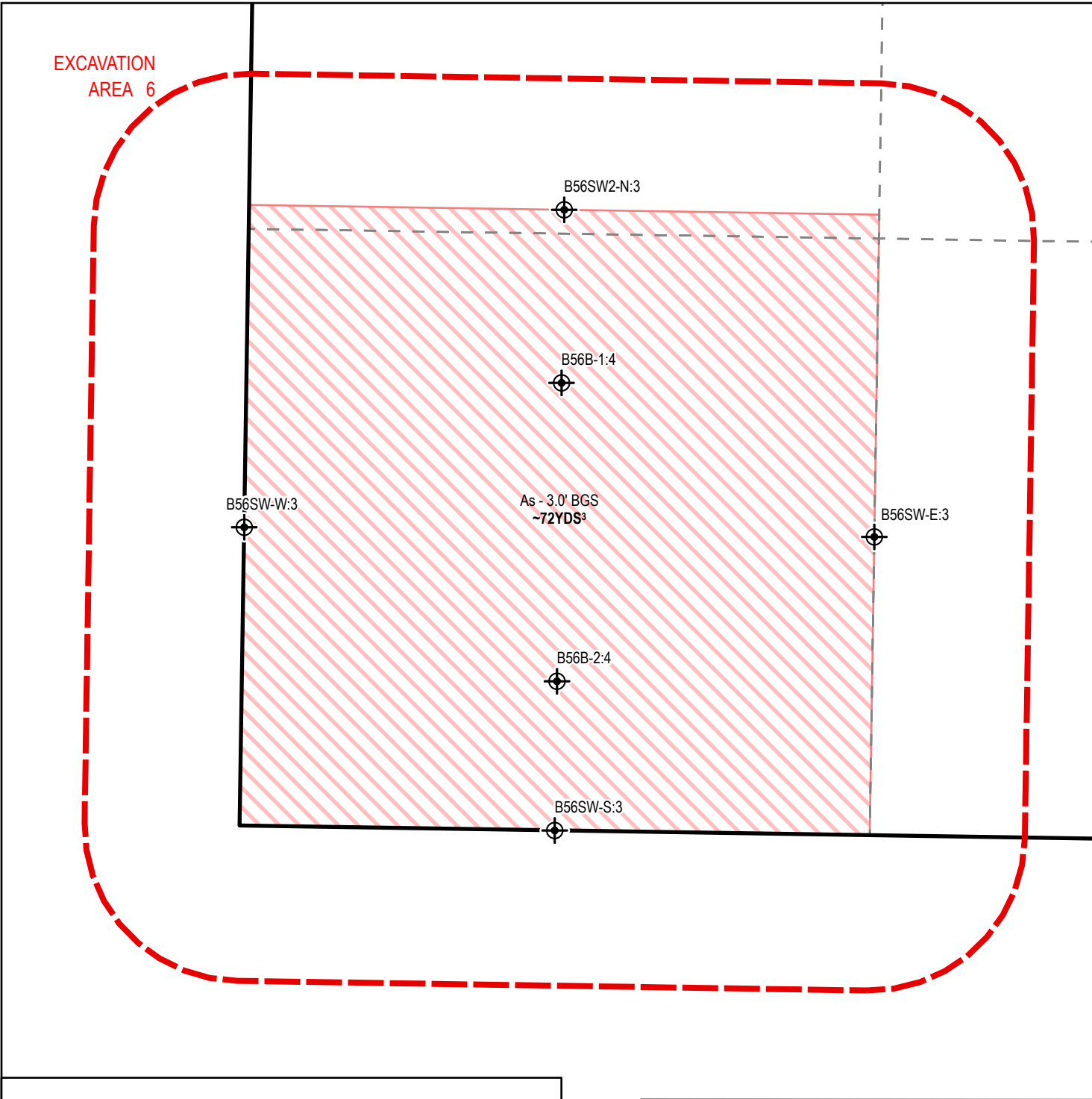
REPORT
 CLEANUP ACTION REPORT

PREPARED FOR
 HAACK BROTHERS HOMES






PROJECT NUMBER
 424198.0001.0000

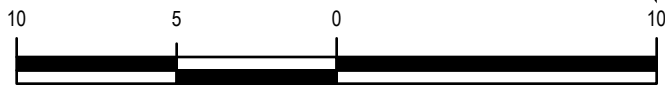
LOCATION
 413 AND 419 ROCKEFELLER AVENUE
 EVERETT, WASHINGTON

DATE 1/10/22
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NOTES:

-  FINAL PERFORMANCE SAMPLE LOCATION
-  SAMPLING GRID LAYOUT, ESTABLISHED USING EVERETT SMELTER PLUME (ESP) GUIDANCE
-  APPROXIMATE SOIL VOLUME IN CUBIC YARDS (YDS³)
-  APPROXIMATE REMEDIATION AREAS
-  APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY



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FIGURE 17
 EXCAVATION AREA 6 - FINAL PERFORMANCE
 SAMPLES

REPORT
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 HAACK BROTHERS HOMES

PROJECT NUMBER
 424198.0001.0000

LOCATION
 413 AND 419 ROCKEFELLER AVENUE
 EVERETT, WASHINGTON

DATE 1/10/22
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Attachment A
Environmental Covenant



200812050469 5 PGS
12/05/2008 3 15pm \$46.00
SNOHOMISH COUNTY, WASHINGTON

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 5 East 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

a 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.

b 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.

d 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

By

Ray Stephanson
Ray Stephanson, Mayor

12-5-08
Date

Attest

Sharon Marks
Sharon Marks, City Clerk

Approved as to Form

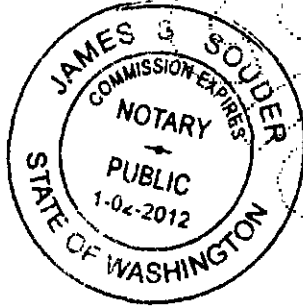
James D. Iles
James D. Iles, City Attorney

Attachments

STATE OF WASHINGTON)
) ss
COUNTY OF SNOHOMISH)

I certify that I know or have satisfactory evidence that RAY STEPHANSON is the person who appeared before me, and said person acknowledged that he/she signed this instrument, on oath stated that he/she was authorized to execute the instrument and acknowledged it as the MAYOR of the City of Everett to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument

DATED 12-05-08



James Souda

Notary Public in and for the State of Washington,
residing at MARYSVILLE
My Commission Expires 1-02-12

Exhibit A CITY OF EVERETT DEPARTMENT OF PARKS AND RECREATION

LEGAL 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 EAST, 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 EAST 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" E 526.56 FEET;
THENCE N 38°28'00" E 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" E 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 FEET TO A POINT OF TANGENCY;
THENCE N 1°33'49" W 80.62 FEET TO THE BEGINNING OF A CURVE TO THE LEFT HAVING A RADIUS OF 534.17 FEET;
THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 12°20'21" AN ARC LENGTH OF 115.04 FEET TO A POINT OF TANGENCY;
THENCE N 13°54'10" W 148.44 FEET;
THENCE N 14°50'29" W 208.02 FEET;
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.

OSTERGAARD-ROBINSON & ASSOCIATES, INC.
3630 COLBY AVENUE
EVERETT, WASHINGTON 98201
425/259-6445
C/96146.LEG



12/16/99
12/16/99

Attachment B
Legion Memorial Golf Course – Additional
Subsurface Investigation Work Plan, dated 2-28-20



1180 NW Maple St., Suite 310
Issaquah, WA 98027

T 425.395.0010
TRCcompanies.com

February 28, 2020

Mr. Joel Haack
Haack Brothers Homes
3922 87th 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

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.

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.

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.

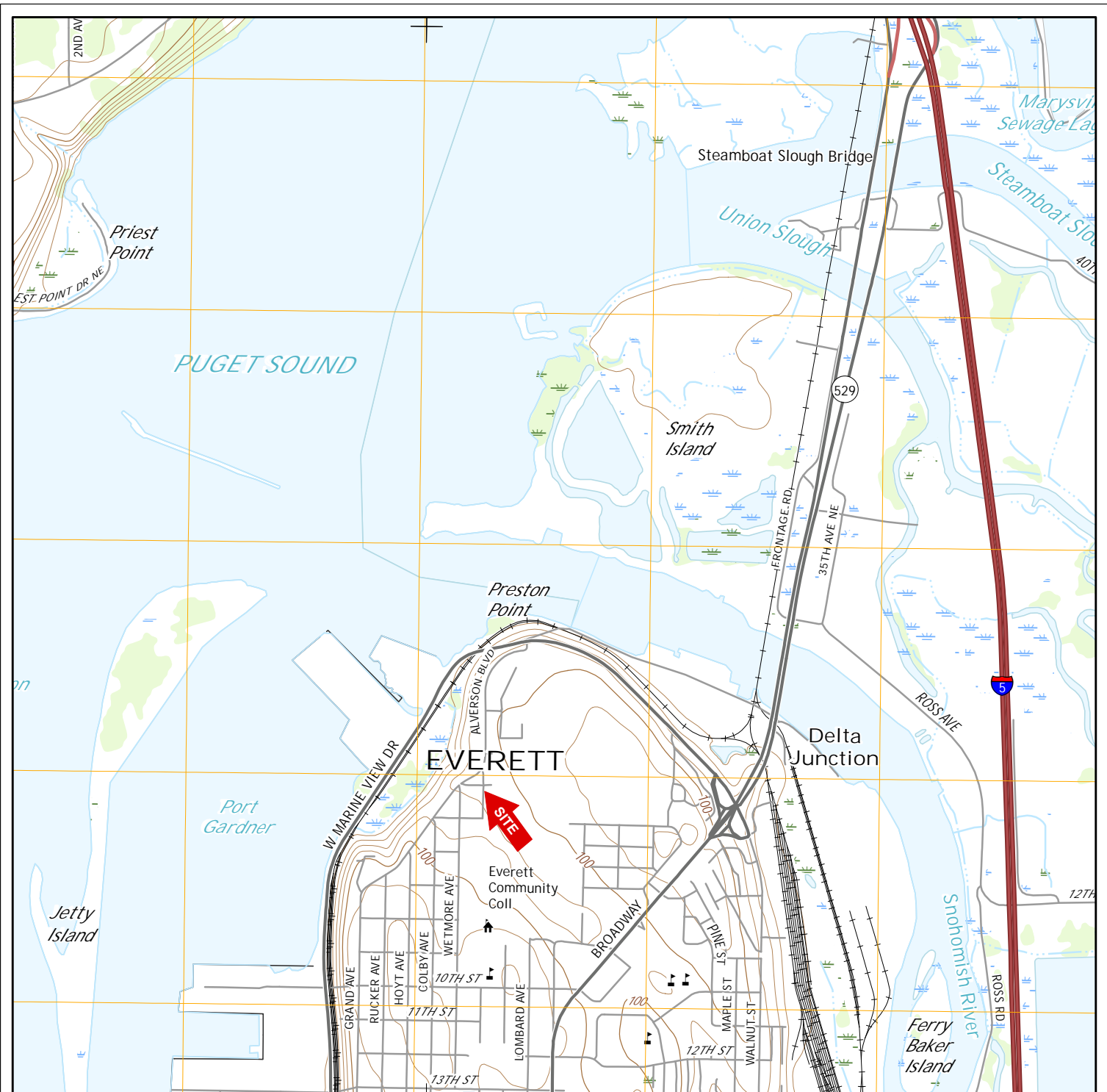
Sincerely,


Thomas C. Morin, L.G.
Principal Geologist




Nate Hinsperger, L.G.
Senior Geologist

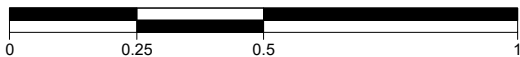
Enclosures: Figure 1 – General Vicinity Map
Figure 2 – Site Representation Showing Soil Analytical Results and Proposed Test Pit Locations
Attachment A – Health and Safety Plan

Figures



NOTES:

APPROXIMATE SCALE (MILES)



SOURCE: USGS 7.5 MINUTE QUADRANGLE (TOPOGRAPHIC)

MARYSVILLE, WA, 7.5-MINUTE

LATITUDE: 48.0119 NORTH

LONGITUDE: -122.2050 WEST

SNOHOMISH COUNTY
SITE

SCALE = 1:24,000



FIGURE 1

GENERAL VICINITY MAP

PREPARED BY



ENVIRONMENTAL PARTNERS INC

REPORT

ADDITIONAL SUBSURFACE INVESTIGATION WORK PLAN

LOCATION

LEGION LOTS - 413 AND 419 ROCKEFELLER AVENUE
EVERETT, WASHINGTON

PREPARED FOR

HAACK BROTHER HOMES

DATE
1/29/20

DRAWN BY
VPB

REVIEWED BY
NDH

PROJECT NUMBER
84701.1

407 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400300

413 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 6

419 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 5

419 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 4

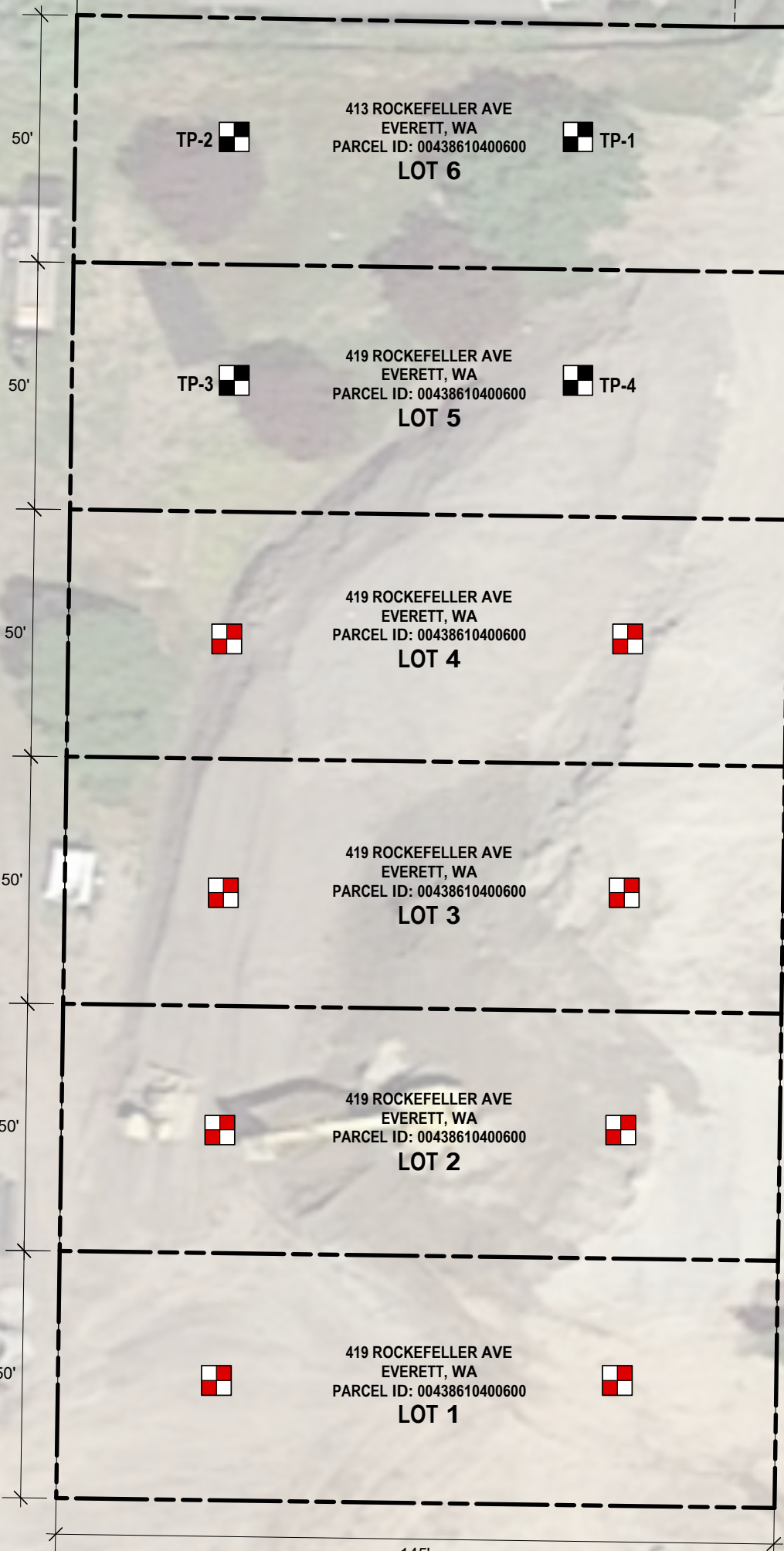
419 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 3

419 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 2

419 ROCKEFELLER AVE
EVERETT, WA
PARCEL ID: 00438610400600
LOT 1

LEGION MEMORIAL
GOLF COURSE
EVERETT, WA
PARCEL ID: 29050800300100

ROCKEFELLER AVENUE



SAMPLE LOCATION	SAMPLE DEPTH (FEET BGS)	SAMPLE DATE	TOTAL METALS		
			ARSENIC	CADMIUM	LEAD
TP-1:4	4	12/10/19	3.32	<1	4.8
TP-1:5.5	5.5	12/10/19	4.05	<1	5.79
TP-2:4.5	4.5	12/10/19	8.16	<1	7.8
TP-2:5.5	5.5	12/10/19	10.6	<1	9.26
TP-3:5.5	5.5	12/10/19	5.86	<1	6.91
TP-3:7	7	12/10/19	8.94	<1	9.58
TP-4:5.45	4.5	12/10/19	12.5	<1	17.8
TP-4:5.5	5.5	12/10/19	4	<1	3.96
MTCA METHOD A SOIL CLEANUP LEVEL FOR UNRESTRICTED LAND USES			20	2	250

ALL RESULTS PRESENTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
BOLD RESULTS EXCEEDED THE LABORATORY REPORTING LIMIT
BGS - BELOW GROUND SURFACE

NOTES:
 APPROXIMATE SUBJECT PROPERTY BOUNDARY PER SNOHOMISH COUNTY
 APPROXIMATE SURROUNDING PARCEL BOUNDARY PER SNOHOMISH COUNTY
 APPROXIMATE TEST PIT LOCATION FROM TARGETED SUBSURFACE INVESTIGATION IN DECEMBER 2019
 PROPOSED TEST PIT LOCATION

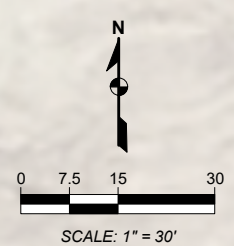


FIGURE 2
SITE REPRESENTATION SHOWING SOIL ANALYTICAL RESULTS AND PROPOSED TEST PIT LOCATIONS

PREPARED BY	ENVIRONMENTAL PARTNERS INC		
REPORT	ADDITIONAL SUBSURFACE INVESTIGATION WORK PLAN		
LOCATION	LEGION LOTS - 413 AND 419 ROCKEFELLER AVENUE EVERETT, WASHINGTON		
PREPARED FOR	HAACK BROTHER HOMES		
DATE	DRAWN BY	REVIEWED BY	PROJECT NUMBER
1/29/20	JYT	NDH	84701.1

Attachment A
Health and Safety Plan



Health and Safety Plan

Site Name:	Legion Lots	
Site Address:	413 and 419 Rockefeller Avenue, Everett, Washington	
TRC Project Number:	015446	
Client:	Haack Brothers Homes	Phone: (425) 397-7360
Site Contact:	Joel Haack	Phone: (425) 397-7360
Client Health and Safety Representative:	N/A	Phone: N/A

Planned Activities: Utility locate, test pit excavation, soil sampling	Location Within Site: Lots 1 through 4 at 413 and 419 Rockefeller Avenue	Dates: March through May 2020
Estimation of Hazards to TRC Personnel: Arsenic, lead, and cadmium in soil, mechanical equipment, subsurface utilities.		
Physical Description of the Facility: Vacant Site in residential neighborhood. Topography is generally flat with vegetative cover.		
Operation Description of the Facility: Vacant Site in residential neighborhood adjacent to golf course.		
Facility Status: Vacant properties in a residential neighborhood.		

Hazard Assessment			
Chemical State:	<input type="checkbox"/> Liquid	<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> Gas
	<input type="checkbox"/> Vapor	<input type="checkbox"/> Unknown	
Chemical Characteristics:	<input type="checkbox"/> Corrosive	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Toxic
	<input type="checkbox"/> Volatile	<input type="checkbox"/> Inert	<input type="checkbox"/> Other:

Describe Potential Chemical Hazards and Modes of Exposure	
Chemical Hazards:	Arsenic, lead, and cadmium in soil.
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 Chemical Hazards						
Chemical Name	Action Levels			Exposure Route	Target Organs	Symptoms
	PEL	STEL	IDLH			
Metals						
Arsenic	0.002 mg/m ³	0.010 mg/m ³	5 mg/m ³	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 ³		9 mg/m ³	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 ³		100 mg/m ³	Inhalation, ingestion, skin/eye contact	Eyes, gastrointestinal 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 Physical Hazards

<input type="checkbox"/> Heat Stress	<input checked="" type="checkbox"/> Cold Stress	<input type="checkbox"/> Explosion/Flammability
<input type="checkbox"/> Noise	<input type="checkbox"/> Confined-Space Entry	<input type="checkbox"/> Oxygen-Deficient Atmosphere
<input checked="" type="checkbox"/> Traffic or heavy equipment	<input type="checkbox"/> Heights	<input checked="" type="checkbox"/> Slip, trip, fall
<input type="checkbox"/> Overhead hazards	<input type="checkbox"/> Dust (non-toxic)	<input type="checkbox"/> 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.

Foot/Ankle Hazards	Sharp objects, dropped objects, uneven and/or slippery surfaces, and chemical exposure.	Chemical resistant, steel-toed boots must be worn at all times on-site.
Eye Hazards	Sharp objects, poor lighting, bright lights (welding equipment), exposure due to splashes.	Safety glasses/face shields will be worn when appropriate. Shaded welding protection will be worn when appropriate.
Electrical Hazards	Underground utilities, overhead utilities, motors, electrical panels equip. and breakers.	Locator service mark-outs, visual inspection of work area prior to starting work.
Mechanical Hazards	Heavy equipment such as drill rigs, service trucks, excavation equipment, saws, drills, etc.	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.	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 Considerations			
Will Client Site Representative be Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Sometimes
Exact Locations of Chemicals:	<input type="checkbox"/> Known	<input checked="" type="checkbox"/> Assumed	<input type="checkbox"/> Unknown
Identify Nearest Off-Site Population:	<input type="checkbox"/> Rural <input type="checkbox"/> Urban	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Residential

Monitoring Equipment		
<input type="checkbox"/> PID	<input type="checkbox"/> FID	<input type="checkbox"/> Combustible gas indicator
<input type="checkbox"/> Colorimetric tubes	<input checked="" type="checkbox"/> Particulate meter	<input type="checkbox"/> Carbon monoxide meter
<input type="checkbox"/> H ₂ S/O ₂ Meter	<input type="checkbox"/> Other (describe):	

Monitoring Action Guidelines		
Instrument	Reading/Observation	Action Required
Particulate Meter	Observable 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

<p>Special Safety Considerations</p> <p>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.”</p>	
<p>Work Location: Lots 1 through 4 at 319 Rockefeller Avenue</p>	
<p>Objective of work at this Location: Test pit advancement, soil sampling</p>	
<p>Level of Protection Planned: <input type="checkbox"/> Level C <input type="checkbox"/> Level D <input checked="" type="checkbox"/> Level D-Modified (explain below)</p>	
<p>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.</p>	

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 onsite-iss@trccompanies.com:

- 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 onsite-iss@trccompanies.com 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

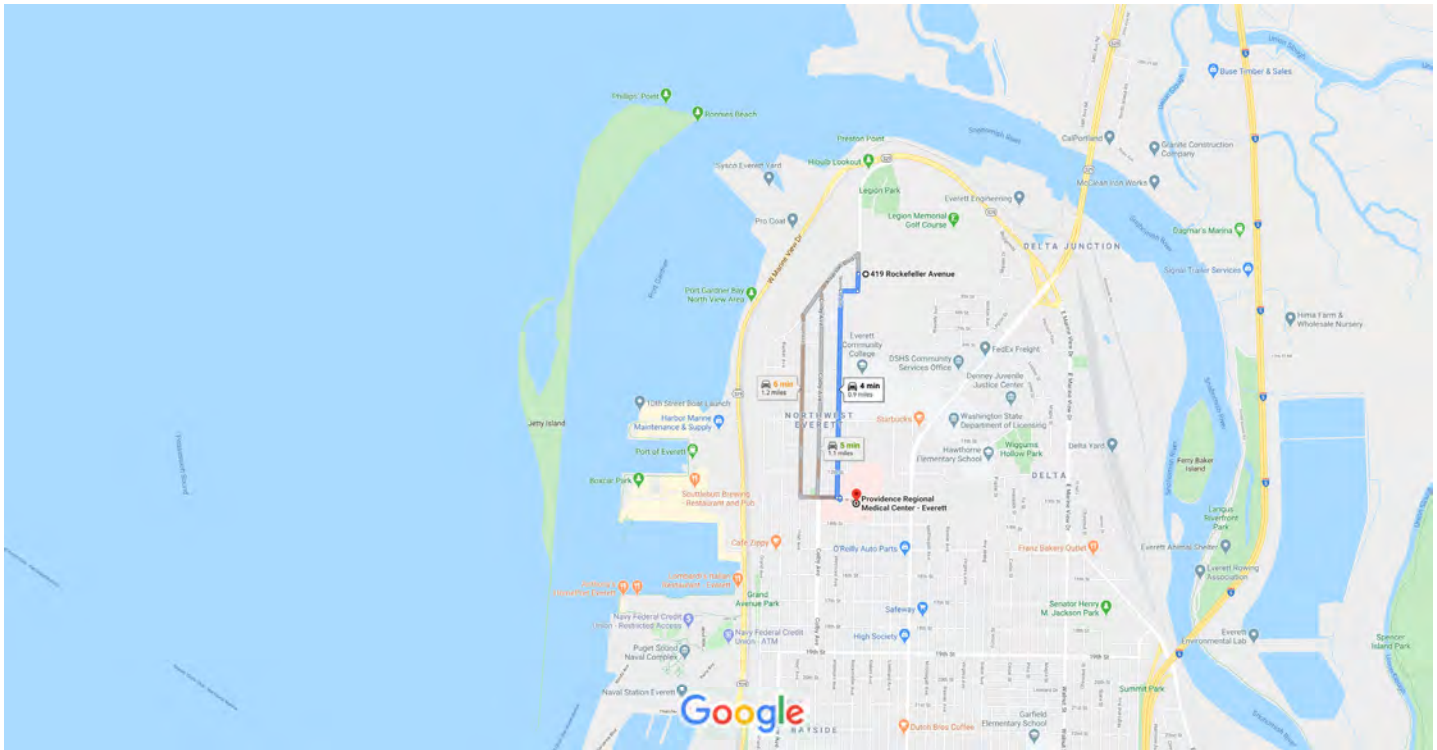
Emergency Planning		
Service	Name	Number
Local Police:	Everett Police Department	911
Local EMS:	Everett Fire Department	911
Local Fire Department:	Everett Fire Department	911
Local Hospital:	Providence Medical Center	(425) 261-2000
Client Contact:	Joel Haack	(425) 397-7360





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

Drive 0.9 mile, 4 min



Map data ©2020 Google 1000 ft

419 Rockefeller Ave

Everett, WA 98201

- ↑ 1. Head south on Rockefeller Ave toward 5th St
322 ft
- ↘ 2. Rockefeller Ave turns right and becomes 5th St
315 ft
- ↙ 3. Turn left onto Wetmore Ave
0.7 mi
- ↙ 4. Turn left onto 13th St
56 ft
- ↘ 5. Turn right
36 ft
Destination will be on the right

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 87th 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 (<https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests>) and emailing it to PublicRecordsOfficer@ecy.wa.gov, 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 (<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653>).

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 through 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 suzan.pool@ecy.wa.gov, 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.

Joel Haack
November 30, 2020
Page 7

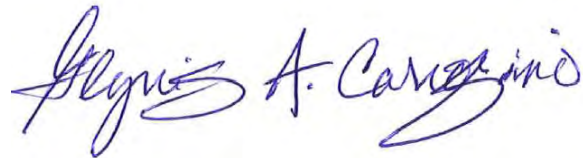
The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

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: www.ecy.wa.gov/vcp. If you have any questions about this opinion, please contact me by phone at (425) 495-5436, or by email at glynis.carrosino@ecy.wa.gov.

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 (sonia.fernandez@ecy.wa.gov)

Joel Haack
November 30, 2020
Page 8

Enclosure A
Everett Smelter Plume
Upland Area Soil Sampling Zones

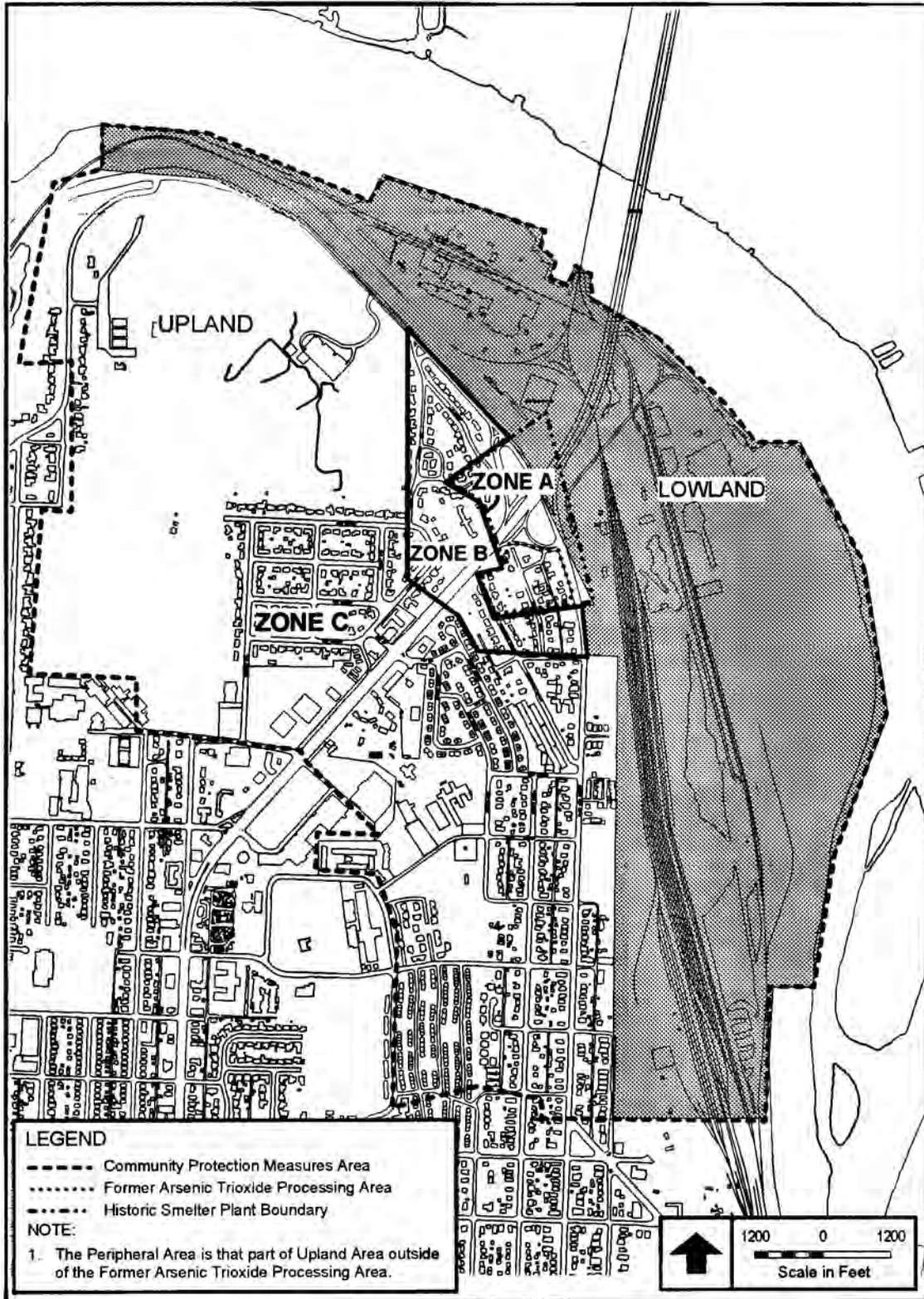


Figure 7-1: Upland Area Soil Sampling Zones.

Joel Haack
November 30, 2020
Page 9

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 (ft ²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft ²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft ²)	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 ²	1,125 to 1,800	Add 1 per 225 ft ²	Greater than 4,000	Add 1 per 500 ft ²
2,250 to 4,000	10	1,800 to 4,000	8		
Greater than 4,000	Add 1 per 400 ft ²	Greater than 4,000	Add 1 per 500 ft ²		
Composite sampling, 6-inch depth intervals to 48 inches		Composite sampling, 6-inch depth intervals to 36 inches		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 cleanup 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.					
4. 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



1180 NW Maple St., Suite 310
Issaquah, WA 98027

T 425.395.0010
TRCcompanies.com

January 29, 2021

Mr. Joel Haack
Haack Brothers Homes
3922 87th 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) ¹, 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

¹ TRC acquired EPI on December 27, 2019. For the purposes of this document and project EPI and TRC may be used synonymously.

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.

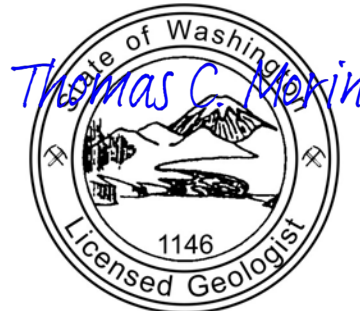
If after reviewing this revised ASI Work Plan you have any questions or need additional information, please feel free to call me at (425) 395-0010.

Sincerely,



NATHANIEL DAVID HINSPERGER

Nathaniel Hinsperger
Prepared by:
Nate D. Hinsperger, L.G.
Senior Geologist/Project Manager



THOMAS C. MORIN

Thomas C. Morin
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

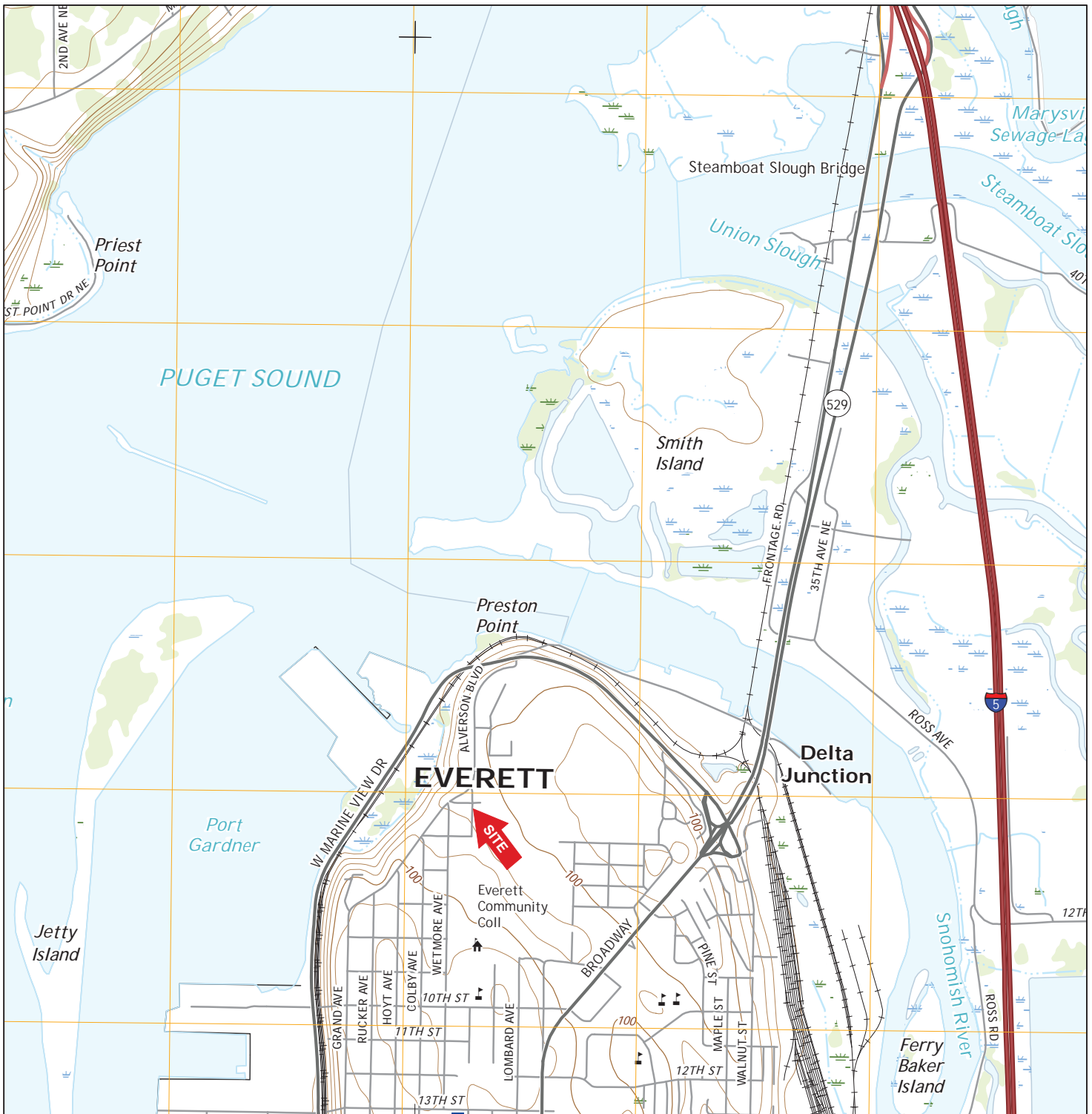
Figures

- Figure 1 Site Vicinity Map
- Figure 2 Site Representation Showing Proposed Soil Boring Locations

Attachments

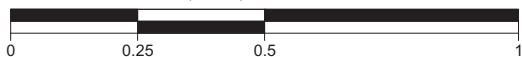
- Attachment A Ecology Opinion Letter, November 30, 2020
- Attachment B Health and Safety Plan

Figures



NOTES:

APPROXIMATE SCALE (MILES)



SOURCE: USGS 7.5 MINUTE QUADRANGLE (TOPOGRAPHIC)

MARYSVILLE, WA, 7.5-MINUTE

LATITUDE: 48.0119 NORTH

LONGITUDE: -122.2050 WEST

SNOHOMISH COUNTY

SCALE = 1:24,000



1180 NW MAPLE ST, SUITE 310
 ISSAQUAH, WA 98027
 425.395.0010
 WWW.TRCCOMPANIES.COM

**FIGURE 1
 SITE VICINITY MAP**

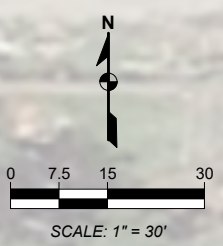
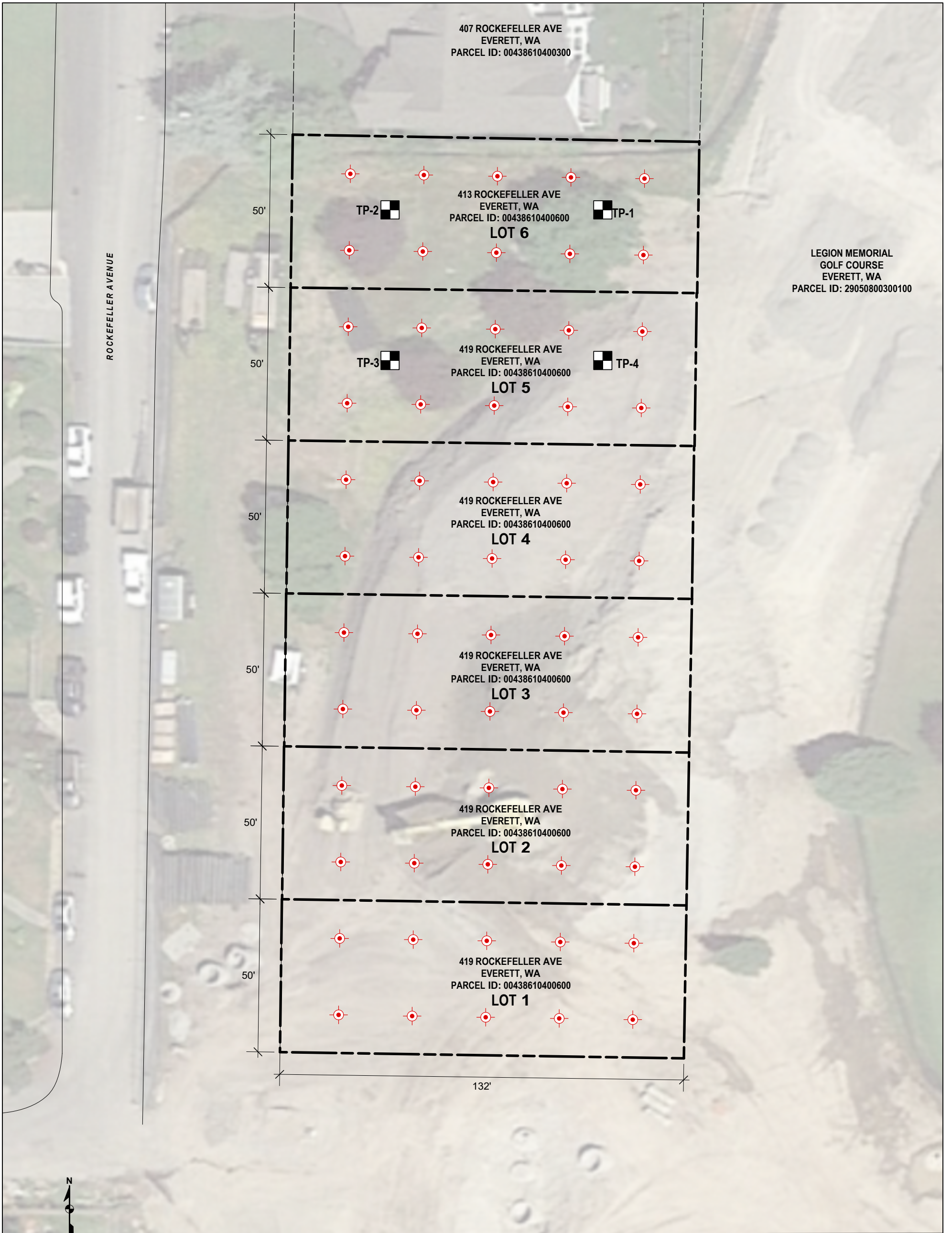
REPORT
 ADDITIONAL SUBSURFACE
 INVESTIGATION WORK PLAN

PREPARED FOR
 HAACK BROTHERS HOMES

PROJECT NUMBER
 424198

LOCATION
 LEGION LOTS
 413 AND 419 ROCKEFELLER AVE
 EVERETT, WASHINGTON

DATE01/29/21
DRAWN BYVPB
REVIEWED BYNH



NOTES:

	APPROXIMATE SITE PARCEL BOUNDARIES PER SNOHOMISH COUNTY
	APPROXIMATE SURROUNDING PARCEL BOUNDARY PER SNOHOMISH COUNTY
	APPROXIMATE TEST PIT LOCATION
	PROPOSED SOIL BORING LOCATION

TRC 1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
WWW.TRCCOMPANIES.COM
425.395.0010

FIGURE 2
SITE REPRESENTATION SHOWING PROPOSED SOIL BORING LOCATIONS

REPORT ADDITIONAL SUBSURFACE INVESTIGATION WORK PLAN	PREPARED FOR HAACK BROTHERS HOMES
LOCATION LEGION LOTS 413 AND 419 ROCKEFELLER AVE EVERETT, WASHINGTON	PROJECT NUMBER 424198
DATE 1/29/21	DRAWN BY VPB
	REVIEWED BY NH

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 87th 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 (<https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests>) and emailing it to PublicRecordsOfficer@ecy.wa.gov, 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 (<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=1653>).

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 through 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 suzan.pool@ecy.wa.gov, 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.

Joel Haack
November 30, 2020
Page 7

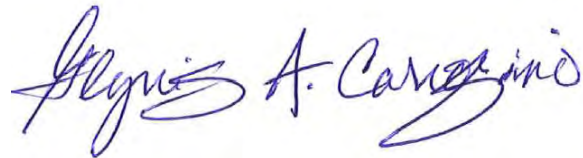
The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

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: www.ecy.wa.gov/vcp. If you have any questions about this opinion, please contact me by phone at (425) 495-5436, or by email at glynis.carrosino@ecy.wa.gov.

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 (sonia.fernandez@ecy.wa.gov)

Joel Haack
November 30, 2020
Page 8

Enclosure A
Everett Smelter Plume
Upland Area Soil Sampling Zones

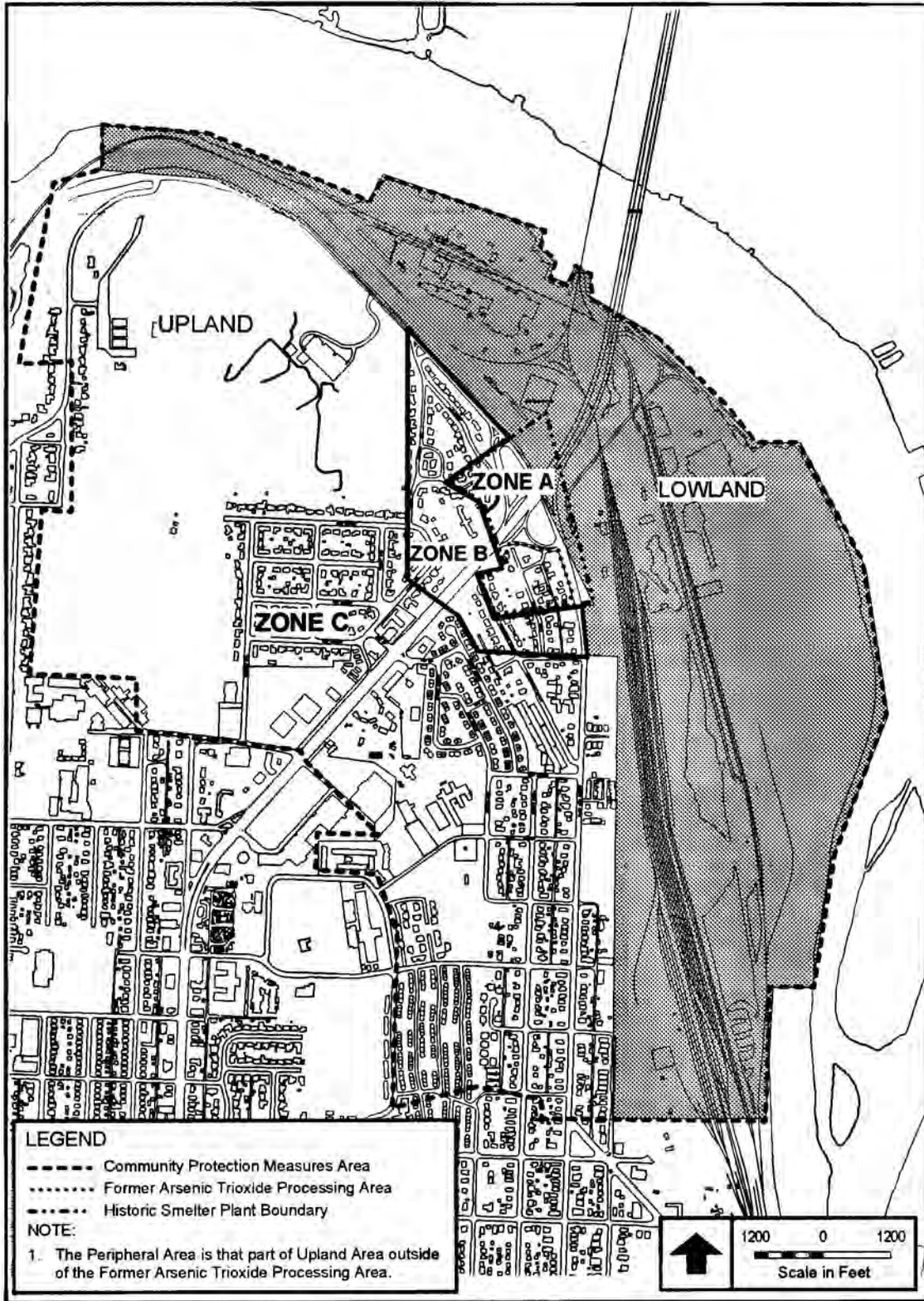


Figure 7-1: Upland Area Soil Sampling Zones.

Joel Haack
November 30, 2020
Page 9

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 (ft ²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft ²)	Number of Sampling Locations Per Decision Unit	Decision Unit Size (ft ²)	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 ²	1,125 to 1,800	Add 1 per 225 ft ²	Greater than 4,000	Add 1 per 500 ft ²
2,250 to 4,000	10	1,800 to 4,000	8		
Greater than 4,000	Add 1 per 400 ft ²	Greater than 4,000	Add 1 per 500 ft ²		
Composite sampling, 6-inch depth intervals to 48 inches		Composite sampling, 6-inch depth intervals to 36 inches		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 cleanup 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.					
4. 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



Health and Safety Plan

Site Name:	Legion Lots	
Site Address:	413 and 419 Rockefeller Avenue, Everett, Washington	
TRC Project Number:	015446	
Client:	Haack Brothers Homes	Phone: (425) 397-7360
Site Contact:	Joel Haack	Phone: (425) 397-7360
Client Health and Safety Representative:	N/A	Phone: N/A

Planned Activities: Utility locate, test pit excavation, drilling, soil sampling	Location Within Site: Lots 1 through 6 at 413 and 419 Rockefeller Avenue	Dates: January through December 2021
Estimation of Hazards to TRC Personnel: Arsenic, lead, and cadmium in soil, mechanical equipment, subsurface utilities, CoVid-19.		
Physical Description of the Facility: Vacant Site in residential neighborhood. Topography is generally flat with vegetative cover.		
Operation Description of the Facility: Vacant Site in residential neighborhood adjacent to golf course.		
Facility Status: Vacant properties in a residential neighborhood.		

Hazard Assessment			
Chemical State:	<input type="checkbox"/> Liquid	<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> Gas
	<input type="checkbox"/> Vapor	<input type="checkbox"/> Unknown	
Chemical Characteristics:	<input type="checkbox"/> Corrosive	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Toxic
	<input type="checkbox"/> Volatile	<input type="checkbox"/> Inert	<input type="checkbox"/> Other:

Describe Potential Chemical Hazards and Modes of Exposure	
Chemical Hazards:	Arsenic, lead, and cadmium in soil.
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 Chemical Hazards						
Chemical Name	Action Levels			Exposure Route	Target Organs	Symptoms
	PEL	STEL	IDLH			
Metals						
Arsenic	0.002 mg/m ³	0.010 mg/m ³	5 mg/m ³	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 ³		9 mg/m ³	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 ³		100 mg/m ³	Inhalation, ingestion, skin/eye contact	Eyes, gastrointestinal 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).

Potential Physical Hazards

<input type="checkbox"/> Heat Stress	<input checked="" type="checkbox"/> Cold Stress	<input type="checkbox"/> Explosion/Flammability
<input checked="" type="checkbox"/> Noise	<input type="checkbox"/> Confined-Space Entry	<input type="checkbox"/> Oxygen-Deficient Atmosphere
<input checked="" type="checkbox"/> Traffic or heavy equipment	<input type="checkbox"/> Heights	<input checked="" type="checkbox"/> Slip, trip, fall
<input type="checkbox"/> Overhead hazards	<input type="checkbox"/> Dust (non-toxic)	<input type="checkbox"/> 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.

Foot/Ankle Hazards	Sharp objects, dropped objects, uneven and/or slippery surfaces, and chemical exposure.	Chemical resistant, steel-toed boots must be worn at all times on-site.
Eye Hazards	Sharp objects, poor lighting, bright lights (welding equipment), exposure due to splashes.	Safety glasses/face shields will be worn when appropriate. Shaded welding protection will be worn when appropriate.
Electrical Hazards	Underground utilities, overhead utilities, motors, electrical panels equip. and breakers.	Locator service mark-outs, visual inspection of work area prior to starting work.
Mechanical Hazards	Heavy equipment such as drill rigs, service trucks, excavation equipment, saws, drills, etc.	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.	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 Considerations			
Will Client Site Representative be Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Sometimes
Exact Locations of Chemicals:	<input type="checkbox"/> Known	<input checked="" type="checkbox"/> Assumed	<input type="checkbox"/> Unknown
Identify Nearest Off-Site Population:	<input type="checkbox"/> Rural <input type="checkbox"/> Urban	<input type="checkbox"/> Industrial <input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Residential

Monitoring Equipment		
<input checked="" type="checkbox"/> PID	<input type="checkbox"/> FID	<input type="checkbox"/> Combustible gas indicator
<input type="checkbox"/> Colorimetric tubes	<input checked="" type="checkbox"/> Particulate meter	<input type="checkbox"/> Carbon monoxide meter
<input type="checkbox"/> H ₂ S/O ₂ Meter	<input type="checkbox"/> Other (describe):	

Monitoring Action Guidelines		
Instrument	Reading/Observation	Action Required
Particulate Meter	Observable 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: <input type="checkbox"/> Level C <input type="checkbox"/> Level D <input checked="" type="checkbox"/> 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 onsite-iss@trccompanies.com:

- 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 onsite-iss@trccompanies.com 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.

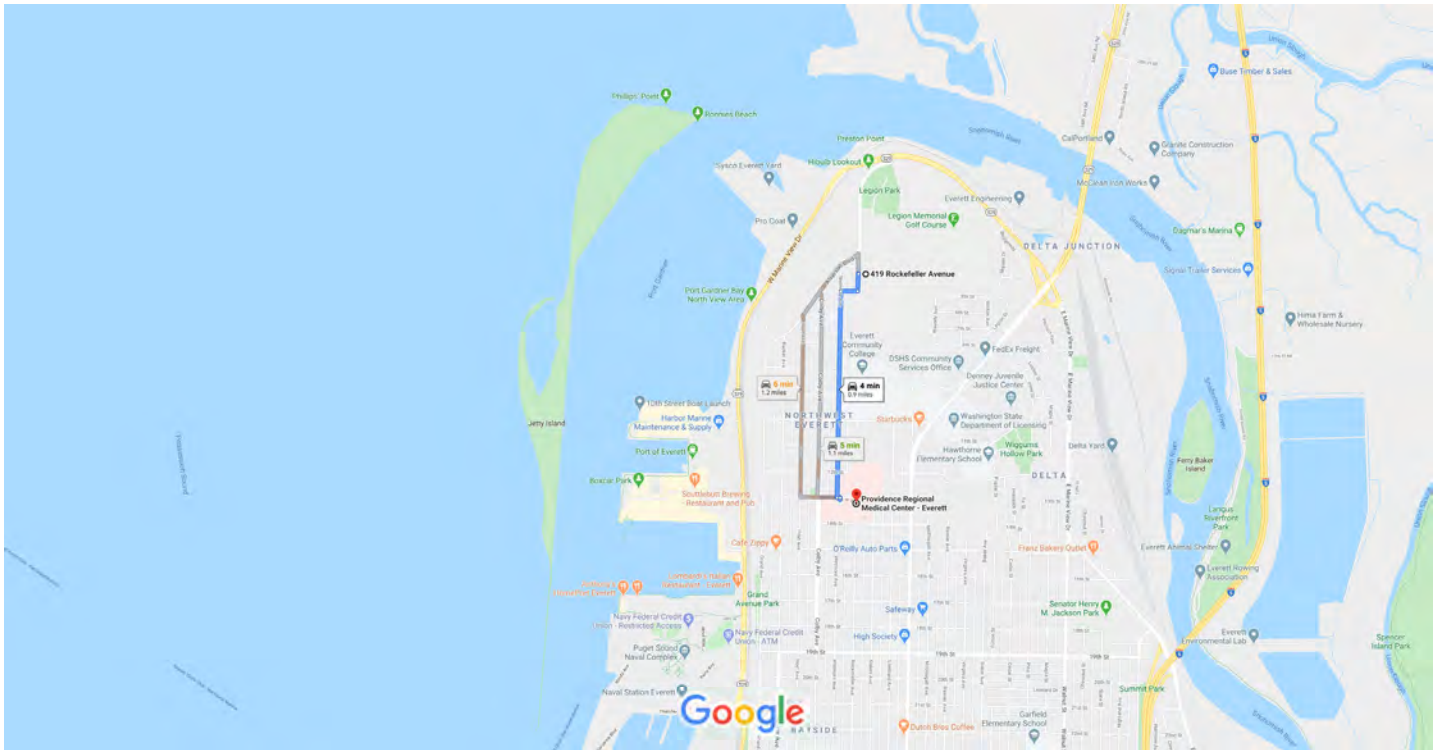
Approvals		
Title	Signature	Date
Site Safety Officer, Wes Weisberg		
Project Manager, Nate Hinsperger		
Company H&S Officer, TRC Safety Officer, Doug Kunkel		

Additional Site Personnel		
Printed Name and Company	Approvals Signature	Date



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

Drive 0.9 mile, 4 min



Map data ©2020 Google 1000 ft

419 Rockefeller Ave


Everett, WA 98201

- ↑ 1. Head south on Rockefeller Ave toward 5th St
322 ft
 - ↘ 2. Rockefeller Ave turns right and becomes 5th St
315 ft
 - ↙ 3. Turn left onto Wetmore Ave
0.7 mi
 - ↙ 4. Turn left onto 13th St
56 ft
 - ↘ 5. Turn right
36 ft
- i** Destination will be on the right

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		<table border="1" style="width: 100%; text-align: center;"> <tr><td>EHS Policy</td></tr> <tr><td>Management System Procedures</td></tr> <tr><td>Compliance Programs</td></tr> <tr style="background-color: #ADD8E6;"><td>Forms, Checklists, Permits, etc.</td></tr> </table>	EHS Policy	Management System Procedures	Compliance Programs	Forms, Checklists, Permits, etc.
	EHS Policy						
	Management System Procedures						
	Compliance Programs						
Forms, Checklists, Permits, etc.							
DOCUMENT TITLE: COVID-19 Guidelines for Field Activities							
DOCUMENT NUMBER: CP052.1	Revision Number: 3						
APPROVED BY: Mike Glenn	Page 1 of 5						


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.
 - **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		<table border="1" style="width: 100%; text-align: center;"> <tr><td>EHS Policy</td></tr> <tr><td>Management System Procedures</td></tr> <tr><td>Compliance Programs</td></tr> <tr><td style="background-color: #ADD8E6;">Forms, Checklists, Permits, etc.</td></tr> </table>	EHS Policy	Management System Procedures	Compliance Programs	Forms, Checklists, Permits, etc.
	EHS Policy						
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DOCUMENT TITLE: COVID-19 Guidelines for Field Activities							
DOCUMENT NUMBER: CP052.1	Revision Number: 3						
APPROVED BY: Mike Glenn	Page 2 of 5						

- 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
 - 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		<table border="1" style="width: 100%; text-align: center;"> <tr><td>EHS Policy</td></tr> <tr><td>Management System Procedures</td></tr> <tr><td>Compliance Programs</td></tr> <tr><td style="background-color: #ADD8E6;">Forms, Checklists, Permits, etc.</td></tr> </table>	EHS Policy	Management System Procedures	Compliance Programs	Forms, Checklists, Permits, etc.
	EHS Policy						
	Management System Procedures						
	Compliance Programs						
Forms, Checklists, Permits, etc.							
DOCUMENT TITLE: COVID-19 Guidelines for Field Activities							
DOCUMENT NUMBER: CP052.1	Revision Number: 3						
APPROVED BY: Mike Glenn	Page 3 of 5						

- **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
- Stager lunch times to minimize social gatherings; consider eating in separate areas
- All lunch waste, bottles and cans should be disposed of immediately after use
- Never share PPE (hard hats, high visibility vests, personal floatation device, safety glasses, etc.
- 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
- Put your clothing directly in the washing machine at the end of shift
- 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		<table border="1" style="width: 100%; text-align: center;"> <tr><td>EHS Policy</td></tr> <tr><td>Management System Procedures</td></tr> <tr><td>Compliance Programs</td></tr> <tr><td>Forms, Checklists, Permits, etc.</td></tr> </table>	EHS Policy	Management System Procedures	Compliance Programs	Forms, Checklists, Permits, etc.
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DOCUMENT TITLE: COVID-19 Guidelines for Field Activities							
DOCUMENT NUMBER: CP052.1	Revision Number: 3						
APPROVED BY: Mike Glenn	Page 4 of 5						


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
<p>These symptoms may appear 2-14 days after exposure.</p> <ul style="list-style-type: none"> • Fever, greater than 100.4°F (38.0°C) • Cough • Shortness of breath 	<ol style="list-style-type: none"> 1. Notify your field and direct supervisor that you feel ill. 2. Supervisor shall notify Office Practice Leader/Practice Leader, Mike Glenn (949-697-7418), and your HR Business Partner immediately. 3. Immediately isolate yourself and return to your place of lodging (return home if nearby). 4. Contact your personal healthcare provider asap (consider using the Cigna app) for evaluation and follow their instructions. 5. Update your field and direct supervisor of your health and work status (e.g., when do you expect to return to work). 6. 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.
<p>If you develop any of the following emergency warning signs:</p> <ul style="list-style-type: none"> • Difficulty breathing or shortness of breath, • Persistent pain or pressure in the chest, • New confusion or inability to arouse, • Bluish lips or face <p>This list is not all inclusive so please consult with your medical provider for further guidance.</p>	<ol style="list-style-type: none"> 1. Get medical attention immediately. 2. 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.

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

	TRC HEALTH AND SAFETY MANAGEMENT SYSTEM		<table border="1" style="width: 100%; text-align: center;"> <tr><td>EHS Policy</td></tr> <tr><td>Management System Procedures</td></tr> <tr><td>Compliance Programs</td></tr> <tr style="background-color: #ADD8E6;"><td>Forms, Checklists, Permits, etc.</td></tr> </table>	EHS Policy	Management System Procedures	Compliance Programs	Forms, Checklists, Permits, etc.
	EHS Policy						
	Management System Procedures						
	Compliance Programs						
Forms, Checklists, Permits, etc.							
DOCUMENT TITLE: COVID-19 Guidelines for Field Activities							
DOCUMENT NUMBER: CP052.1	Revision Number: 3						
APPROVED BY: Mike Glenn	Page 5 of 5						

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		EHS Policy
	DOCUMENT TITLE: COVID-19 Questionnaire for Onsite Workers		Management System Procedures
	DOCUMENT NUMBER: CP052.2	Revision Number: 2	Compliance Programs
	APPROVED BY: Mike Glenn	Page 1 of 1	Forms, Checklists, Permits, etc.

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: _____

Company/Organization: _____

Email Address: _____

Phone Number: _____

Project Name: _____

1. Do you have signs of a fever or measured temperature above 100.4°F or greater, a dry cough, tiredness, or trouble breathing within the past 24 hours?
 Yes No

2. Have you had “close contact” with an individual diagnosed with COVID-19? “Close contact” means living in the same household as a person who has tested positive for COVID-19, caring for a person who has tested positive for COVID-19, being within 6 feet of a person who has tested positive for COVID-19 for 15 minutes or more, or coming in direct contact with secretions (for example, sharing utensils or being coughed on) from a person who has tested positive for COVID-19 while the person was symptomatic.
 Yes No

3. Have you, or anyone inside your residence been exposed to someone else who is currently being quarantined by a doctor or a local public health official?
 Yes No

Be aware that your client may have additional requirements as well. Please consult the [COVID-19 Client Documents](#) 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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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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

FRIEDMAN & BRUYA, INC.

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.

<u>Laboratory ID</u>	<u>TRC Environmental</u>
102006-01	B-1:0.5
102006-02	B-1:2
102006-03	B-1:10
102006-04	B-2:0.5
102006-05	B-2:2
102006-06	B-2:10
102006-07	DUP-1
102006-08	B-3:0.5
102006-09	B-3:2
102006-10	B-3:10
102006-11	B-4:0.3
102006-12	B-4:0.5
102006-13	B-4:2.5
102006-14	B-4:10
102006-15	B-5:0.3
102006-16	B-5:1
102006-17	B-5:3
102006-18	B-5:10
102006-19	DUP-2
102006-20	B-6:0.5
102006-21	B-6:2
102006-22	B-6:4
102006-23	B-6:6
102006-24	B-6:10
102006-25	B-7:0.5
102006-26	B-7:2
102006-27	B-7:4
102006-28	B-7:6
102006-29	B-7:10
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/02/21	Lab ID:	102006-01
Date Analyzed:	02/03/21	Data File:	102006-01.080
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	27.0
Cadmium	<1
Lead	66.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.1
Cadmium	<1
Lead	11.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.5
Cadmium	<1
Lead	39.6

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/02/21	Lab ID:	102006-05
Date Analyzed:	02/03/21	Data File:	102006-05.091
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.4
Cadmium	<1
Lead	8.89

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.6
Cadmium	<1
Lead	11.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	15.4
Cadmium	<1
Lead	26.5

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.3
Cadmium	<1
Lead	10.3

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/02/21	Lab ID:	102006-11
Date Analyzed:	02/03/21	Data File:	102006-11.095
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.82

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.13
Cadmium	<1
Lead	10.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.1
Cadmium	<1
Lead	9.48

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.03
Cadmium	<1
Lead	6.59

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/02/21	Lab ID:	102006-16
Date Analyzed:	02/03/21	Data File:	102006-16.101
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.2
Cadmium	<1
Lead	59.6

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.1
Cadmium	<1
Lead	11.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.5
Cadmium	<1
Lead	13.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.16

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.24

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	18.2
Cadmium	<1
Lead	54.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.43
Cadmium	<1
Lead	8.57

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.80
Cadmium	<1
Lead	6.18

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.62

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	19.0
Cadmium	<1
Lead	57.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.71
Cadmium	<1
Lead	9.87

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.49

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.66

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.97
Cadmium	<1
Lead	24.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.4
Cadmium	<1
Lead	10.7

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.25

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	15.9
Cadmium	<1
Lead	156

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.6
Cadmium	<1
Lead	10.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.04
Cadmium	<1
Lead	14.8

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	7.38

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.71
Cadmium	<1
Lead	17.3

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.3
Cadmium	<1
Lead	9.86

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.35

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.54
Cadmium	<1
Lead	14.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.82
Cadmium	<1
Lead	331

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.74
Cadmium	<1
Lead	188

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.55

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/02/21	Lab ID:	102006-51
Date Analyzed:	02/03/21	Data File:	102006-51.181
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.31
Cadmium	<1
Lead	22.9

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.29
Cadmium	<1
Lead	176

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.88

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.45

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-56
Date Analyzed:	02/03/21	Data File:	102006-56.187
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.58
Cadmium	<1
Lead	44.7

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-57
Date Analyzed:	02/04/21	Data File:	102006-57.190
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.1
Cadmium	<1
Lead	9.09

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-59
Date Analyzed:	02/04/21	Data File:	102006-59.191
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.96

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.04

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.74

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	20.6
Cadmium	<1
Lead	54.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	11.4
Cadmium	<1
Lead	11.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.80

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.78

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	28.2
Cadmium	1.09
Lead	947

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.6
Cadmium	<1
Lead	13.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.02
Cadmium	<1
Lead	4.72

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-71
Date Analyzed:	02/04/21	Data File:	102006-71.203
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	8.51

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.6
Cadmium	<1
Lead	55.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	8.02

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.99
Cadmium	<1
Lead	13.5

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.03
Cadmium	<1
Lead	5.73

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.54

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.3
Cadmium	<1
Lead	46.9

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.0
Cadmium	<1
Lead	8.66

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.00
Cadmium	<1
Lead	4.92

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.76

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.5
Cadmium	1.28
Lead	109

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.15

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.31
Cadmium	<1
Lead	8.77

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	12.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	33.5
Cadmium	1.32
Lead	153

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.25

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.51

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.48
Cadmium	<1
Lead	10.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.1
Cadmium	<1
Lead	12.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.90

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.68

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-97
Date Analyzed:	02/04/21	Data File:	102006-97.232
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	29.8
Cadmium	<1
Lead	439

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.54
Cadmium	<1
Lead	8.44

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.00

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/03/21	Lab ID:	102006-101
Date Analyzed:	02/04/21	Data File:	102006-101.235
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.18

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	10.8

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	16.5
Cadmium	<1
Lead	101

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.11
Cadmium	<1
Lead	5.90

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.04

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	12.5

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.1
Cadmium	<1
Lead	85.2

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/212	Lab ID:	102006-110
Date Analyzed:	02/04/21	Data File:	102006-110.156
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.09

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.87
Cadmium	<1
Lead	5.96

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.36
Cadmium	<1
Lead	4.69

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.80
Cadmium	<1
Lead	9.89

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	26.3
Cadmium	<1
Lead	43.6

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.42
Cadmium	<1
Lead	6.80

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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)
Arsenic	<5
Cadmium	<1
Lead	4.05

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.32

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	20.5
Cadmium	<1
Lead	37.1

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.48

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.71
Cadmium	<1
Lead	7.57

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.22
Cadmium	<1
Lead	5.21

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.36
Cadmium	<1
Lead	18.2

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.20
Cadmium	<1
Lead	6.34

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.08
Cadmium	<1
Lead	5.16

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.24

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.9
Cadmium	<1
Lead	32.5

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.32
Cadmium	<1
Lead	6.49

FRIEDMAN & BRUYA, INC.

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)
Arsenic	<5
Cadmium	<1
Lead	4.31

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.22

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.70

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.48

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.4
Cadmium	<1
Lead	15.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.31

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.36
Cadmium	<1
Lead	16.3

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.0
Cadmium	<1
Lead	38.4

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.64

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.12
Cadmium	<1
Lead	7.04

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	7.65

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.32

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.9
Cadmium	<1
Lead	24.6

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.06
Cadmium	<1
Lead	6.84

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.93

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.36
Cadmium	<1
Lead	4.81

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.97

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/21	Lab ID:	102006-154
Date Analyzed:	02/05/21	Data File:	102006-154.222
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.93

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.35

FRIEDMAN & BRUYA, INC.

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:	02/04/21	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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.79

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.13
Cadmium	<1
Lead	9.63

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.54

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.2
Cadmium	<1
Lead	8.87

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.65
Cadmium	<1
Lead	5.50

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.1
Cadmium	<1
Lead	8.76

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.57

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.44

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	9.02

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.69
Cadmium	<1
Lead	7.45

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.34
Cadmium	<1
Lead	4.93

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.94

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.93
Cadmium	<1
Lead	27.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.92
Cadmium	<1
Lead	7.04

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.41
Cadmium	<1
Lead	6.12

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.34
Cadmium	<1
Lead	6.65

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/21	Lab ID:	102006-179
Date Analyzed:	02/05/21	Data File:	102006-179.248
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.23

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.0
Cadmium	<1
Lead	9.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.4
Cadmium	<1
Lead	10.3

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.19

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.86

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/21	Lab ID:	102006-185
Date Analyzed:	02/05/21	Data File:	102006-185.255
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.28

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.91

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.41
Cadmium	<1
Lead	18.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.11
Cadmium	<1
Lead	5.98

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.16

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.5
Cadmium	<1
Lead	14.3

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.62
Cadmium	<1
Lead	8.40

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.53
Cadmium	<1
Lead	9.04

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.3
Cadmium	<1
Lead	10.7

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.16

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.01
Cadmium	<1
Lead	8.98

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	8.05

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.65

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.81

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.44

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.9
Cadmium	<1
Lead	15.9

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.13
Cadmium	<1
Lead	6.84

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.43

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	8.38

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.53
Cadmium	<1
Lead	7.48

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	13.8
Cadmium	<1
Lead	9.37

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.34
Cadmium	<1
Lead	9.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.97
Cadmium	<1
Lead	7.40

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.02
Cadmium	<1
Lead	5.52

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.09
Cadmium	<1
Lead	6.03

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.29
Cadmium	<1
Lead	5.61

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.40

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.16
Cadmium	<1
Lead	4.80

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.77

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	7.11

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.81
Cadmium	<1
Lead	6.86

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.27
Cadmium	<1
Lead	9.04

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.61

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.81

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.36
Cadmium	<1
Lead	5.41

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.85
Cadmium	<1
Lead	7.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.51

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.16
Cadmium	<1
Lead	9.77

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.19
Cadmium	<1
Lead	5.19

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.47
Cadmium	<1
Lead	5.70

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.59

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.42
Cadmium	<1
Lead	6.10

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.84

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.39
Cadmium	<1
Lead	8.66

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.37
Cadmium	<1
Lead	6.99

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.35
Cadmium	<1
Lead	10.1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.77
Cadmium	<1
Lead	8.01

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.37
Cadmium	<1
Lead	6.40

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	2.98

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.23

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.94

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.67

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.95
Cadmium	<1
Lead	11.7

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/21	Lab ID:	102006-259
Date Analyzed:	02/05/21	Data File:	102006-259.128
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.27
Cadmium	<1
Lead	10.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.84

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	6.59
Cadmium	<1
Lead	8.80

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.10

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.80
Cadmium	<1
Lead	7.89

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.43
Cadmium	<1
Lead	5.85

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.76
Cadmium	<1
Lead	8.60

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.27

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.16

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	1.97

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	02/04/21	Lab ID:	102006-271
Date Analyzed:	02/05/21	Data File:	102006-271.171
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.44
Cadmium	<1
Lead	7.09

FRIEDMAN & BRUYA, INC.

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
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.07
Cadmium	<1
Lead	4.56

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.85
Cadmium	<1
Lead	6.79

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.23
Cadmium	<1
Lead	7.20

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.09

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.66

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.01
Cadmium	<1
Lead	5.25

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.84

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.89

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	42.9
Cadmium	1.26
Lead	64.9

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.57
Cadmium	<1
Lead	7.65

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.58
Cadmium	<1
Lead	5.33

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.11
Cadmium	<1
Lead	7.67

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.65

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.0
Cadmium	<1
Lead	10.7

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	10.8
Cadmium	<1
Lead	9.72

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.50
Cadmium	<1
Lead	7.68

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	5.99

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	9.30
Cadmium	<1
Lead	15.3

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.86
Cadmium	<1
Lead	5.44

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.89

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	8.07
Cadmium	<1
Lead	12.9

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.53
Cadmium	<1
Lead	6.46

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	3.44

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	4.24

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	14.3
Cadmium	<1
Lead	20.4

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	6.59

FRIEDMAN & BRUYA, INC.

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:	I1-72 mb
Date Analyzed:	02/02/21	Data File:	I1-72 mb.149
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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:	I1-78 mb
Date Analyzed:	02/04/21	Data File:	I1-78 mb.090
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<5
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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
Lead	mg/kg (ppm)	50	43.6	88	94	75-125	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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: 102006-52 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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 b	164 b	75-125	25 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	85	92	75-125	8
Cadmium	mg/kg (ppm)	10	<1	104	105	75-125	1
Lead	mg/kg (ppm)	50	3.54	93	92	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	96	90	75-125	6
Cadmium	mg/kg (ppm)	10	<1	102	98	75-125	4
Lead	mg/kg (ppm)	50	4.33	100	97	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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: 102006-226 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	82	84	75-125	2
Cadmium	mg/kg (ppm)	10	<1	102	99	75-125	3
Lead	mg/kg (ppm)	50	3.09	87	83	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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
Lead	mg/kg (ppm)	50	6.48	81	78	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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.

102006

Report To Nate Hingray

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Fossquah WA 98027

Phone 425-358-0410 Email NHingray@trccorp.com

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 1 of 31

085

SAMPLERS (signature) _____
 PROJECT NAME Hacke Br.
 REMARKS 424198
 INVOICE TO _____

TURNAROUND TIME _____
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-1:0.5	01	1/25/21	0958	Soil	1									X	Hold Run per MW 2/1/21
B-1:2	02		1000		1									X	
B-1:10	03		1002		1									X	
B-2:0.5	04		1010		1									X	
B-2:2	05		1012		1									X	
B-2:10	06		1014		1									X	
DDP-1	07				1									X	
B-3:0.5	08		1026		1									X	
B-3:2	09		1028		1									X	
B-3:10	10		1030		1									X	

SIGNATURE _____ PRINT NAME Wesley Wrigley COMPANY TRC DATE _____ TIME _____

Relinquished by: _____
 Received by: Wesley Wrigley
 Relinquished by: _____
 Received by: _____

Samples received at 5:00 (up)

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Report To: Nate Hingray

Company: TRC

Address: 1180 NW Maple St. Suite 310

City, State, ZIP: Issaquah WA 98027

Phone: 425-595-0016 Email: NHingray@Trc.com

SAMPLERS (signature)	
PROJECT NAME	<u>Track Bas</u>
PO#	<u>424198</u>
REMARKS	<u>Project specific RI's? Yes / No</u>
INVOICE TO	

TURNAROUND TIME	<u>Standard turnaround</u>
RUSH	<input type="checkbox"/>
Rush charges authorized by:	
SAMPLE DISPOSAL	<input type="checkbox"/> Archive samples
	<input type="checkbox"/> Other
	Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-4: 0.3	11	1/25/21	1846	Soil	1							X				Hold per 2/1/21	
B-4: 0.5	12		1042									X					
B-4: 2.5	13		1044									X					
B-4: 10	14		1046									X					
B-5: 0.3	15		1058									X					
B-5: 1	16		1080									X					
B-5: 3	17		1002									X					
B-5: 10	18		1104									X					
DIP-2	19											X					
B-6: 0.5	20		1125									X					

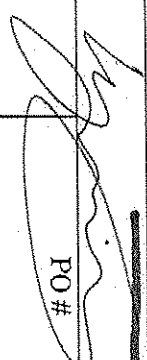
Relinquished by:		PRINT NAME	<u>Nate Hingray</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	<u>1000</u>
Received by:			<u>Nhan Phan</u>		<u>FE BI</u>				
Relinquished by:									
Received by:									

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

Samples received at 5:00

SAMPLE CHAIN OF CUSTODY HE 02/01/21



Report To Nate Hopper
 Company TRC
 Address 180 New Maple St. Suite 310
 City, State, ZIP Issaquah WA 98027
 Phone 425-395-0010 Email NHopper@trccorp.com

SAMPLERS (signature)	
PROJECT NAME	<u>Hyack Res</u>
REMARKS	<u>424198</u>
INVOICE TO	
Project specific RI#? - Yes / No	

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-6:2	21	1/25/21	11:27	Soil	1											<u>Hold Dunper</u>
B-6:4	22		11:29													<u>WJ</u>
B-6:6	23		11:30													<u>2/1/21</u>
B-6:10	24		11:32													
B-7:0.5	25		11:54													
B-7:2	26		11:56													
B-7:4	27		11:58													
B-7:6	28		12:00													
B-7:10	29		12:02													
DSP-3	30															

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Relinquished by:		<u>Myles</u>	<u>Phan</u>	<u>TRC</u>	<u>2/1/21</u>	<u>10:00</u>
Received by:		<u>Mylan</u>	<u>Phan</u>	<u>F&BI</u>		
Relinquished by:						
Received by:					<u>5</u>	<u>°C</u>

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 4 of 31

Report To Wate Hingey

Company TRC

Address 1180 N.W. Maple St Suite 310

City, State, ZIP Essexport WA 98027

Phone 425-395-0010 Email W.Hingey@TRC.com

SAMPLERS (signature)

PROJECT NAME

Hack Bas

PO #

REMARKS

424198

INVOICE TO

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-8:0.5	31	1/20/21	12:14	Soil	1										Hotel Run	
B-8:2	32		12:16													per MW
B-8:3	33		12:18													2/1/21
B-8:5	34		12:20													
B-8:10	35		12:22													
B-9:0.3	36		13:22													
B-9:1	37		13:24													
B-9:3	38		13:26													
B-9:10	39		13:28													
DOR-4	40															

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by:

[Signature]

Walter Westphal

TRC

2/1/21

1000

Received by:

Phan Phan

FE BI

2/1/21

1000

Received by:

Samples received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

005

Report To Nate Hysinger

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email NHysinger@Trc.com

SAMPLERS (signature)

PROJECT NAME

Hatch Bras

PO #

REMARKS

42499

INVOICE TO

Project specific RLS? - Yes / No

Page # 5 of 131

TURNAROUND TIME

Standard turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-10:0.3	41	1/25/21	1336	Soil	1											Hatch Run	
B-10:1	42		1330		1												Per mail 2/1/21
B-10:3	43		1340		1												
B-10:10	44		1342		1												
B-11:0.5	45		1356		1												
B-11:1	46		1359		1												
B-11:3	47		1400		1												
B-11:10	48		1402		1												
DUP-5	49				1												
B-12:0.5	50		1414		1												

SIGNATURE

Reinquished by: Nate Hysinger

PRINT NAME

Nate Hysinger

COMPANY

TRC

DATE

2/1/21

TIME

000

Received by: Phan Phan

Phan Phan

TRC

2/1/21

000

Reinquished by:

Received by:

Samples received at 5 ⁰⁰

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/10/21

POS

Page # 6 of 21

Report To: Nate Hinkley
Company: TFC
Address: 1180 NW Maple St. Suite 310
City, State, ZIP: Flagstaff WA 98027
Phone: 509-291-6010 Email: nhinkley@tfcenvironment.com

SAMPLERS (signature)

PROJECT NAME
Haach Bas

REMARKS
924198

PROJECT NAME

INVOICE TO

PO#

Project specific RLS? - Yes / No

TURNAROUND TIME
 Standard turnaround
 RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
 Archive samples
 Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-12:1	51	1/25/21	1416	Soil	1											Hinkley
B-12:3	52	1/26/21	1418	Soil	1											per 2/11/21
B-12:1b	53	1/26/21	1426	Soil	1											
B-13:05	54	1/26/21	0914	Soil	1											
B-13:15	55	1/26/21	0916	Soil	1											
B-13:2	56	1/26/21	0918	Soil	1											
B-13:4	57	1/26/21	0920	Soil	1							X				
B-13:1b	58	1/26/21	0922	Soil	1							X				
DPP-1a	59	1/26/21		Soil	1							X				
B-14:0.5	60	1/26/21	0934	Soil	1							X				

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Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
		Nate Hinkley	Whitney Phelan	TFC	F&BI	2/11/21	1000
Reinquired by:		Reinquired by:		Reinquired by:			
Received by:		Received by:		Received by:			
Received by:		Received by:		Received by:			

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

7 of 31

Report To Nate Hirsberger

Company TRC

Address 1180 NW Maple St Suite 210

City, State, ZIP Issaquah WA 98027

Phone 425-351-4616 Email NHirsberger@TRC.com

SAMPLERS (signature)

PROJECT NAME

Hack Bas

PO#

INVOICE TO

REMARKS

Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-14:2	61	1/26/21	0936	Soil	1												<u>total pm</u>
B-14:3	62		0938		1												<u>per mw</u>
B-14:5	63		0946		1												<u>2/1/21</u>
B-14:10	64		0942		1												
B-15:0.5	65		0950		1												
B-15:2	66		0952		1												
B-15:3	67		0954		1												
B-15:5	68		0956		1												
B-15:10	69		0958		1												
B-16:0.5	70		1008		1												

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Reinquished by:	<u>[Signature]</u>	<u>Wade Harber</u>		<u>TRC</u>		<u>2/1/21</u>	
Received by:	<u>[Signature]</u>	<u>Nhan Phan</u>		<u>FE&I</u>		<u>5</u>	<u>00</u>
Reinquished by:							
Received by:							

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/91

Page # 8 of 31

Report To Wate Hissinger

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Essaquah WA 98027

Phone 425-395-0610 Email WateHissinger@trc.com

SAMPLERS (signature)		PROJECT NAME	
		<u>Health Bar</u>	
REMARKS		INVOICE TO	
<u>424198</u>			
Project specific RI's? - Yes / No			

TURNAROUND TIME	PO #
<input checked="" type="checkbox"/> Standard turnaround	
<input type="checkbox"/> RUSH	
Rush charges authorized by:	
SAMPLE DISPOSAL	
<input type="checkbox"/> Archive samples	
<input type="checkbox"/> Other	
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-16:2	71	1/26/21	1018	Soil	1										Hold per
B-16:2.5	72		1012		1										2/1/21
B-16:5	73		1014		1										
B-16:10	74		1016		1										
DOP-7	75														
B-17:0.5	76		1024		1										
B-17:2	77		1026		1										
B-17:3	78		1028		1										
B-17:5	79		1030		1										
B-17:10	80		1032		1										

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:		<u>Walter Leiting</u>		<u>TRC</u>		<u>2/1/21</u>		<u>1000</u>	
Received by:		<u>Wan Phan</u>		<u>FeBT</u>		<u>2/1/21</u>		<u>1000</u>	
Relinquished by:									
Received by:									

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006
 Report To Nate Hinderger
 Company TRC
 Address 180 Alki Maple St. Suite 310
 City, State, ZIP Bellevue WA 98027
 Phone 425-255-0116 Email NHinderger@trcenvironment.com

SAMPLERS (signature)	PO #
PROJECT NAME	INVOICE TO
<u>Phanck Bros</u>	
REMARKS	
<u>921198</u>	
Project specific RLS? - Yes / No	

Page # 10 of 31

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-20:05	Q1	1/26/21	1114	Soil	1										Hold Run
B-20:1	Q2		1116		1										per run
B-20:3	Q3		1118		1										2/1/21
B-20:15	Q4		1120		1										
B-21:0.5	Q5		1236		1										
B-21:2	Q6		1238		1										
B-21:3	Q7		1240		1										
B-21:5	Q8		1242		1										
B-21:15	Q9		1244		1										
B-22:0.5	100		1254		1										

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		<u>Ms. Stephanie</u>		<u>TRC</u>		<u>2/1/21</u>	<u>1000</u>
Received by: <u>[Signature]</u>		<u>Phan Phan</u>		<u>TRC</u>			
Relinquished by:							
Received by:							

SAMPLE CHAIN OF CUSTODY

Page # 11 of 81

102006

Report To: Mike King

Company: JRC

Address: 1180 New Maple St. Suite 310

City, State, ZIP: Tussock WA 98027

Phone: 425-395-0011 Email: MKing@JRC.com

PDS

TURNAROUND TIME

Standard turnaround
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
 Default: Dispose after 30 days

SAMPLERS (signature) [Signature] PO # _____

PROJECT NAME: Hack Bras

REMARKS: 42419%

INVOICE TO _____

ANALYSES REQUESTED

NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082
						Pb, As, Cd

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B-22:15	101	1/26/21	1256	Soil	1								Hack Run
B-22:25	102		1258										per wwd
B-22:4	103		1300										2/1/21
B-22:10	104		1302										
B-23:4.5	105		1324										
B-23:1.5	106		1336										
B-23:2	107		1338										
B-23:4	108		1340										
B-23:10	109		1342										
B00-9	110												

SIGNATURE

Relinquished by: [Signature] PRINT NAME: Walter Werberg COMPANY: JRC DATE: 2/1/21 TIME: 1000

Received by: [Signature] PRINT NAME: Nhan Phan COMPANY: FEBI DATE: TIME:

Relinquished by: PRINT NAME: COMPANY: DATE: TIME:

Received by: PRINT NAME: COMPANY: DATE: TIME:

Samples received at 5 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

WE 02/01/21

Page # 13 of 21

Report To Nate Hays

Company JRC

Address 180 NW Maple St. Suite 310

City, State, ZIP Sequim WA 98027

Phone 425-397-0210 Email NateHays@jrc.com

SAMPLERS (signature)	PROJECT NAME	PO #
<i>[Signature]</i>	<u>Track Bar</u>	
REMARKS	INVOICE TO	
<u>4/24/19</u>		

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other _____

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-25:10	121	1/26/21	1442	Soil	1											<u>Holds 2m</u>
B-26:6.5	122	1/27/21	0958		1											<u>per WWS</u>
B-26:2	123		1000		1											
B-26:2.5	124		1002		1											
B-26:5	125		1004		1											
B-26:10	126		1006		1											
B-27:0.5	127		1016		1											
B-27:2	128		1018		1											
B-27:4	129		1020		1											
B-27:10	130		1022		1											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	<u>Nate Hays</u>	<u>JRC</u>	<u>2/1/21</u>	<u>1000</u>
<i>[Signature]</i>	<u>Whan Phan</u>	<u>FBT</u>		
Received by:			Samples received at	<u>5</u> °C

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

BOS

Page # 14 of 31

Report To Mark H. Saper
 Company TRC
 Address 1130 NW Maple St. Suite 810
 City, State, ZIP Issaquah WA 98027
 Phone 425-395-0016 Email MarkH.Saper@TRC.com

SAMPLERS (signature) [Signature] PO # [Signature]
 PROJECT NAME Track Bas
 REMARKS 4/24/19
 INVOICE TO

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
B-27:16	131	1/27/21	1024	Soil	1													
DPP-11	132																	
B-28:0.5	133											X						
B-28:1.5	134											X						
B-28:2	135											X						
B-28:4	136											X						
B-28:10	137											X						
B-29:0.5	138											X						
B-29:1	139											X						
B-29:3	140											X						

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>Wahy Weisberg</u>	<u>TRC</u>		
<u>[Signature]</u>	<u>Phan Phan</u>	<u>FeBI</u>	<u>2/1/21</u>	<u>1000</u>
Received by:				
Relinquished by:				

Samples received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21 17 of 31

Report To Nate Hysinger

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-351-2016 Email Nate.Hysinger@trc.com

SAMPLERS (signature)

PROJECT NAME

House Bas

PO #

REMARKS

424/198

INVOICE TO

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-34:0.5	161	1/27/21	1226	Soil	1												Hold Run
B-34:1.5	162		1228		1												Per WW 2/1/21
B-34:2.5	163		1230		1												
B-34:4	164		1232		1												
B-34:10	165		1234		1												
DVP-14	166																
B-35:0.5	167		1240		1												
B-35:2	168		1242		1												
B-35:3	169		1244		1												
B-35:5	170		1246		1												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>	<u>Melroy Lotibary</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1003</u>
Relinquished by: <u>[Signature]</u>	<u>Phan Phan</u>	<u>FeBI</u>		
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

Received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

HE 02/01/21 18 of 31 BOS

Report To Nate Hixson

Company TRC

Address 180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-2910 Email NHixson@trconline.com

SAMPLERS (signature)	PO #
PROJECT NAME	INVOICE TO
<u>Hack Bras</u>	
REMARKS	
<u>424198</u>	
Project specific RI's? - Yes / No	

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-35:10	171	1/27/21	1248	Soil	1										<u>Hold Run</u>
B-36:05	172		1346		1							X			per wtd 2/1/21
B-36:2	173		1348		1							X			
B-36:4	174		1350		1							X			
B-36:6	175		1352		1							X			
B-36:10	176		1354		1							X			
B-37:05	177		1400		1							X			
B-37:2.5	178		1402		1							X			
B-37:4	179		1404		1							X			
B-37:6	180		1408		1							X			

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Reinquished by:		Mary Phelan	Phan	TRC	2/1/21	1000
Received by:		Mary Phelan	Phan	FBI		
Reinquished by:						
Received by:						Samples received at 5°C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

DD5

Page # 19 of 31

Report To Mate Hixinger

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email M.Hixinger@trcinc.com

SAMPLERS (signature)

PROJECT NAME

REMARKS

Huckle Bros

424 198

Project specific RLS? Yes / No

PO #

INVOICE TO

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-37:1D	181	1/27/21	1408	Soil	1												Hold per MW 2/1/21
DUP-15	182																
B-38:0.5	183		1416		1												
B-38:1	184		1418		1												
B-38:3	185		1420		1												
B-38:1D	186		1422		1												
B-39:0.5	187	1/20/21	0916		1												
B-39:2	188		0918		1												
B-39:5	189		0920		1												
B-39:7	190		0922		1												

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Reinquired by:

[Signature]

Melissa Weisberg

TRC

2/1/21

10:00

Received by:

[Signature]

Nhan Phan

TRC

2/1/21

10:00

Reinquired by:

[Signature]

Nhan Phan

TRC

2/1/21

10:00

Ph. (206) 285-8282

Seattle, WA 98119-2029

3012 16th Avenue West

Friedman & Bruya, Inc.

SAMPLE CHAIN OF CUSTODY


ME 02/01/21

Page #

20 of 31

PRO 31

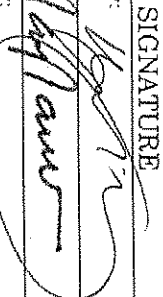
102006
 Report To Nate H. Nguyen
 Company TRC
 Address 1180 NW Maple St Suite 310
 City, State, ZIP Issaquah WA 98027
 Phone 425-345-0010 Email Nate.Nguyen@trc.com

SAMPLERS (signature) 		PROJECT NAME <u>Health Bas</u>	PO#
REMARKS <u>425 198</u>		INVOICE TO	

TURNAROUND TIME <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____	SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days
---	---

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-39:10	191	1/28/21	0924	Soil	1												<u>100% Run</u>
DUP-16	192					X											<u>per MW 2/1/21</u>
B-40:0.5	193		0938			X											
B320:2	194		0940			X											
B-40:3.5	195		0942			X											
B-40:5.5	196		0944			X											
B-40:10	197		0946			X											
B-41:0.5	198		0950			X											
B-41:1.5	199		0952			X											
B-41:2.5	200		0954			X											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE 		PRINT NAME <u>Nathan Phan</u>		COMPANY <u>TRC</u>		DATE <u>2/1/21</u>		TIME <u>1000</u>	
Relinquished by:									
Received by:		<u>Nathan Phan</u>							
Relinquished by:									
Received by:									

Samples received at 5:00

102006

SAMPLE CHAIN OF CUSTODY

ME 02/10/21 2/1/21 of 31

Report To Notre Hippocampus

Company TRC

Address 1180 Mill Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0410 Email notrehippocampus@trc.com

SAMPLERS (signature)	PROJECT NAME	PO#
<i>[Signature]</i>	<u>Hacke Bar</u>	
REMARKS	INVOICE TO	
<u>424193</u>		

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-41:5	201	1/28/21	0956	Soil	1							X	Pb, A, Cd	
B-41:10	202		0958		1							X		held per 2/1/21
DUP-17	203											X		
B-42:0.5	204		1610		1							X		
B-42:2	205		1612		1							X		
B-42:4.5	206		1614		1							X		
B-42:6	207		1616		1							X		
B-42:16	208		1618		1							X		
B-43:8.5	209		1622		1							X		
B-43:2	210		1024		1							X		

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>		Mesley Mesley		TRC		
Received by: <i>[Signature]</i>		Phan Phan		FBI	2/1/21	1000
Relinquished by:						
Received by:						

Samples received at 5 00

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 22 of 31

Report To Nate Hininger

Company TRC

Address 1120 NW Maple St, Suite 210

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email NateHininger@TRC.com

SAMPLERS (signature)

PROJECT NAME

Hacke Bros

PO #

REMARKS

4/24/98

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-43:4	211	1/29/21	1026	Soil	1							X	Pb, As, Cd	Hold Run
B-43:6	212		1028		1							X		per win
B-43:10	213		1030		1							X		2/1/21
B-44:05	214		1040		1							X		
B-44:2	215		1042		1							X		
B-44:4.5	216		1044		1							X		
B-44:6	217		1046		1							X		
B-44:10	218		1048		1							X		
B-45:1	219		1128		1							X		
B-45:3	220		1130		1							X		

Friedman & Bruja, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

Relinquished by: [Signature]

PRINT NAME

Wesley Weiberg
Nhan Phan

COMPANY

TRC
FCBI

DATE

2/1/21

TIME

1000

Received by:

Samples received at

5°C

TURNAROUND TIME
 Standard turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
 Archive samples
 Other
Default: Dispose after 30 days

SAMPLE CHAIN OF CUSTODY **ME 02/10/21**

102006

Page # **23** of **31** **PRO**

Report To Nate Hingray

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0210 Email Alhappagarcia@trc.com

SAMPLERS (signature)	PROJECT NAME	PO #
<i>[Signature]</i>	Hack Bay	
REMARKS	INVOICE TO	
4/24/98		

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other _____

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
B-45:4	221	1/20/21	1132	Soil	1													
B-45:6	222		1134															
B-45:10	223		1136															
DOP-18	224																	
B-46:0.5	225		1140															
B-46:2	226		1142															
B-46:3	227		1144															
B-46:5	228		1146															
B-46:10	229		1148															
B-47:0.5	230		1152															

Relinquished by:	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by:	<i>[Signature]</i>	Walter Phibbs	TRC	2/11/21	1000
Relinquished by:	<i>[Signature]</i>	Nhan Phan	FB I	5	00
Received by:			Samples received at		

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

Report To Matt Hingsberg

Company TRC

Address 180 NW Maple St Suite 316

City, State, ZIP Issaquah WA 98027

Phone 425-397-0616 Email Matt.Hingsberg@TRC.com

SAMPLERS (signature)

HE 2/10/21 000
24 of 31

PROJECT NAME

Haack Bas

PO #

REMARKS

4/24/98

INVOICE TO

TURNAROUND TIME

Standard turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B-47:2	231	1/28/21	11:54	Soil	1												Hold per per w/w
B-47:2.5	232		11:56		1												
B-47:4.5	233		11:58		1												
B-47:10	234		12:00		1												
DUP-19	235																
B-48:1	236		12:20		1												
B-48:3	237		12:22		1												
B-48:5	238		12:24		1												
B-48:7	239		12:26		1												
B-48:10	240		12:28		1												

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Wesley Hingsberg

TRC

2/1/21

1000

Received by:

Wahm Phan

FCBI

2/1/21

1000

Relinquished by:

Samples received at

5

0

Friedman & Bruyna, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

Report To Mark Hargreaves

Company TRC

Address 1180 New Maple St. Suite 310

City, State, ZIP Troy, WA 98019

Phone 425-355-0610 Email MHargreaves@TRC.com

NE 02/01/21 25 hrs of 31

SAMPLERS (signature)	PROJECT NAME	PO #
<i>[Signature]</i>	Hack Box	
REMARKS	INVOICE TO	
424198		

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-49:1	241	1/28/21	1330	Soil	1								X	Pb, As, Cd	Hot Run
B-49:3	242		1332		1								X		per run
B-49:5	243		1334		1								X		2/1/21
B-49:7	244		1336		1								X		
B-49:10	245		1338		1								X		
DOP-20	246												X		
B-50:8.5	247		1344		1								X		
B-50:2.5	248		1346		1								X		
B-50:3.5	249		1348		1								X		
B-50:5	250		1350		1								X		

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Relinquished by:	<i>[Signature]</i>	Verley Verley		TRC		
Received by:	<i>[Signature]</i>	Phan Phan		FE BI	2/1/21	1000
Relinquished by:						
Received by:						

Samples received at 5 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

Report To Mate Hingsperger

Company TRC

Address 1180 NW Maple St. Suite 316

City, State, ZIP Stoughton WA 98027

Phone 425-291-0010 Email MHingsperger@trc.com

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature)

PROJECT NAME

Shack Bas

PO #

REMARKS

424198

INVOICE TO

ME 02/01/21 DVS
Page # 20 of 31

TURNAROUND TIME

Standard turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes						
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Pb, As, Cd									
B-50:10	251	1/28/21	1352	Soil	1																	
B-51:0.5	252		1408																		1 per w/w	
B-51:2	253		1410																			2/1/21
B-51:5	254		1412																			
B-51:7	255		1414																			
B-51:10	256		1416																			
B-52:0.5	257		1422																			
B-52:2	258		1424																			
B-52:4	259		1426																			
B-52:6	260		1428																			

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Wesley Weirberg

TRC

2/1/21

1000

Received by: [Signature]

Moran Pham

TRC

2/1/21

1000

Relinquished by:

5

Received by:

Samples received at

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

102006

Report To Nate Hingray

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email NHingray@trccorp.com

SAMPLE CHAIN OF CUSTODY

ME 02/10/21

Page # 28 of 31

SAMPLERS (signature)	
PROJECT NAME	<u>Health Bar</u>
PO #	
REMARKS	<u>400/198</u>
INVOICE TO	
Project specific PLS? - Yes / No	

TURNAROUND TIME	<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL	<input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-54:6	271	1/29/21	1046	Soil	1									X	Pb, As, Cd	Health Bar
B-54:10	272		1048											X		per wind
D100-22	273													X		2/1/21
B-55:0.5	274		1056											X		
B-55:2	275		1052											X		
B-55:3	276		1054											X		
B-55:5	277		1056											X		
B-55:10	278		1058											X		
D00:73	279													X		
B-56:0.5	280		1106											X		

Relinquished by:		SIGNATURE
Received by:	<u>Nathan Phan</u>	PRINT NAME
Relinquished by:		COMPANY
Received by:		DATE
Relinquished by:		TIME
Received by:		Samples received at

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 29 of 31

Report To Not: Hingsberger

Company TPL

Address 1186 NW Maple St. Suite 310

City, State, ZIP Tigard, OR 97121

Phone 503-395-2010 Email N.Hingsberger@tascomp.com

SAMPLERS (signature)

PROJECT NAME

REMARKS

INVOICE TO

PO#

TURNAROUND TIME

Standard turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-56:2	281	1/29/21	1108	Soil	1										Hold Run
B-56:3	282		1110		1										per MW 2/1/21
B-56:5	283		1112		1										
B-56:10	284		1114		1										
B-57:6.5	285		1116		1										
B-57:18	286		1118		1										
B-57:2	287		1120		1										
B-57:3.5	288		1122		1										
B-57:10	289		1124		1										
DUP-24	290				1										

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

Wendy Westby

Whan Pham

TPL

Feris

2/1/21

1000

Received by:

Samples received at

5:00

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

Report To Mate Hintersperger

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-795-0110 Email Althagen@Tracomp.com

Page # 28 of 31

TURNAROUND TIME

Standard turnaround

RUSH

Archive samples

Other

Default: Dispose after 30 days

SAMPLERS (signature)

PROJECT NAME

Haack Bay

REMARKS

424178

PO #

INVOICE TO

ANALYSES REQUESTED

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082

Pb, As, Cd

Notes

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B-58:0.5	241	1/29/21	1136	Soil	1								<u>Hold Run</u>
B-58:1	242		1138		1								<u>Per MW</u>
B-58:3	243		1140		1								
B-58:10	244		1142		1								
B-59:0.5	245		1150		1								
B-59:1.5	246		1152		1								
B-59:2.5	247		1154		1								
B-59:4.5	248		1156		1								
B-59:10	249		1158		1								
B-60:5.5	300		1206		1								

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Wesley Whaley

TRC

2/1/21

1000

Received by: [Signature]

Mona Phana

TRC

2/1/21

1000

Relinquished by:

Samples received at 5:00

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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.

<u>Laboratory ID</u>	<u>TRC Environmental</u>
102006-01	B-1:0.5
102006-02	B-1:2
102006-03	B-1:10
102006-04	B-2:0.5
102006-05	B-2:2
102006-06	B-2:10
102006-07	DUP-1
102006-08	B-3:0.5
102006-09	B-3:2
102006-10	B-3:10
102006-11	B-4:0.3
102006-12	B-4:0.5
102006-13	B-4:2.5
102006-14	B-4:10
102006-15	B-5:0.3
102006-16	B-5:1
102006-17	B-5:3
102006-18	B-5:10
102006-19	DUP-2
102006-20	B-6:0.5
102006-21	B-6:2
102006-22	B-6:4
102006-23	B-6:6
102006-24	B-6:10
102006-25	B-7:0.5
102006-26	B-7:2
102006-27	B-7:4
102006-28	B-7:6
102006-29	B-7:10
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>TRC Environmental</u>
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

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.47
Cadmium	<1
Lead	3.21

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	98	95	75-125	3
Cadmium	mg/kg (ppm)	10	<5	100	98	75-125	2
Lead	mg/kg (ppm)	50	6.99	102	99	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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.

102006

SAMPLE CHAIN OF CUSTODY HE 01/01/21

Page # 3 of 31

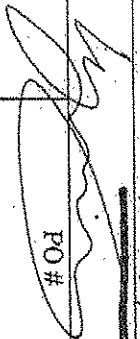
Report To Nate Hopper

Company TRC

Address 1180 New Maple St. Suite 310

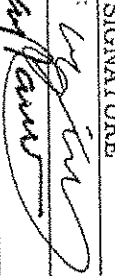
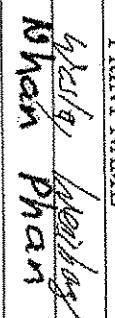
City, State, ZIP Issaquah WA 98027

Phone 425-391-0010 Email NHopper@TRC.com

SAMPLERS (signature)	
PROJECT NAME	<u>Huckle Bros</u>
REMARKS	<u>424198</u>
INVOICE TO	
PO #	
Project specific RIS? Yes / No	

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-6:2	21	1/25/21	11:27	Soil	1										Hot Run per MW
B-6:4	22		11:29												
B-6:6	23		11:30												
B-6:10	24		11:32												
B-7:0.5	25		11:54												
B-7:2	26		11:56												
B-7:4	27		11:58												
B-7:6	28		12:00												
B-7:10	29		12:02												
DISP-3	30														

Relinquished by:		PRINT NAME	<u>Nate Hopper</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	
Received by:		PRINT NAME	<u>Khyan Phan</u>	COMPANY	<u>F&BI</u>	DATE		TIME	
Relinquished by:		PRINT NAME		COMPANY		DATE		TIME	
Received by:		PRINT NAME		COMPANY		DATE		TIME	

Samples received at 5 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8292

102006

SAMPLE CHAIN OF CUSTODY ME 02/01/11

Page # 4 of 31

Report To Nate Hingger

Company TRC

Address 180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-295-6010 Email NHingger@TRC.com

SAMPLERS (signature)	
PROJECT NAME	<u>Hacke Bas</u>
REMARKS	<u>424198</u>
PROJECT specific RLS? - Yes / No	
INVOICE TO	

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-8:0.5	31	1/27/11	12:14	Soil	1									X		Hold Run
B-8:2	32		12:16											X		per SW
B-8:3	33		12:18											X		2/1/11
B-8:5	34		12:20											X		
B-8:10	35		12:22											X		
B-9:0.3	36		13:22											X		
B-9:1	37		13:29											X		
B-9:3	38		13:26											X		
B-9:10	39		13:28											X		
DOR 4	40													X		

Reinquired by:		PRINT NAME	<u>Nate Hingger</u>	COMPANY	<u>TRC</u>	DATE		TIME	
Received by:		PRINT NAME	<u>Nathan Phan</u>	COMPANY	<u>FE BI</u>	DATE	<u>2/1/11</u>	TIME	<u>1000</u>
Reinquired by:		PRINT NAME		COMPANY		DATE		TIME	
Received by:		PRINT NAME		COMPANY		DATE		TIME	

Samples received at 5:00

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

005

Report To Nate Hysinger

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Trempealeau WA 98027

Phone 425-395-0010 Email NHysinger@trc.com

SAMPLERS (signature)	
PROJECT NAME	<u>Hacker Bay</u>
REMARKS	<u>424/190</u>
INVOICE TO	
Project specific RI's? - Yes / No	

Page # 5 of 13

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-10:0.3	41	1/25/21	1836	Soil	1								X	Pb, As, Cd	Held per MW
B-10:1	42	1	1330		1								X		per MW
B-10:3	43	1	1340		1								X		
B-10:10	44	1	1342		1								X		
B-11:0.5	45	1	1356		1								X		
B-11:1	46	1	1358		1								X		
B-11:3	47	1	1400		1								X		
B-11:10	48	1	1402		1								X		
DUP-5	49	1			1								X		
B-12:0.5	50	1	1414		1								X		

Relinquished by: <u>Wesley Weidberg</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>Wesley Weidberg</u>		<u>Wesley Weidberg</u>	<u>TRC</u>	<u>2/1/21</u>	<u>000</u>
Relinquished by:		<u>Wesley Weidberg</u>	<u>TRC</u>		
Received by:		<u>Wesley Weidberg</u>	<u>TRC</u>		

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

Samples received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

POS

Page # 6 of 31

Report To Nat Hingger

Company TEL

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-315-5010 Email Althaus@tel.com

SAMPLERS (signature)	
PROJECT NAME	<u>Phan Phan</u>
REMARKS	<u>92/11/18</u>
INVOICE TO	
PO#	

Standard turnaround RUSH Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-12:1	51	1/25/21	1416	Soil	1											
B-12:3	52	1/25/21	1418		1											
B-12:10	53	1/26/21	0914		1											
B-13:5.5	54	1/26/21	0914		1											
B-13:1.5	55	1/26/21	0916		1											
B-13:2	56	1/26/21	0918		1											
B-13:4	57	1/26/21	0920		1											
B-13:10	58	1/26/21	0922		1											
DUP-6	59	1/26/21	0934		1											
B-14:8.5	60	1/26/21	0934		1											

Relinquished by:		PRINT NAME	<u>Nat Hingger</u>	COMPANY	<u>TEL</u>	DATE	<u>2/1/21</u>	TIME	<u>1000</u>
Received by:		PRINT NAME	<u>Phan Phan</u>	COMPANY	<u>FBI</u>	DATE	<u>5</u>	TIME	<u>0</u>

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

7 of 31

Report To Nate Hinesper

Company TRC

Address 1180 NW Maple St Suite 316

City, State, ZIP Issaquah WA 98027

Phone 425-395-0610 Email nhinesper@trccorp.com

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME	PO#
<u>Track Bas</u>	
REMARKS	INVOICE TO
<u>424198</u>	
Project specific RI's? - Yes / No	

<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by:	TURNOROUND TIME _____
<input type="checkbox"/> Archive samples <input type="checkbox"/> Other	SAMPLE DISPOSAL _____
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Pb, As, Cd		
B-14:2	61	1/26/21	0936	Soil	1										10/12 Pm
B-14:3	62		0938												per WW
B-14:5	63		0948												2/1/21
B-14:10	64		0942												
B-15:05	65		0950												
B-15:2	66		0952												
B-15:3	67		0954												
B-15:5	68		0956												
B-15:10	69		0954												
B-16:05	70		1008												

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Melby Pham</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1003</u>
Relinquished by:					
Received by:					

Samples received at 5⁰⁰

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 08/01/21

Page # 8 of 31

TURNAROUND TIME

Report To: Note Hengge

Company: TRC

Address: 1180 NW Maple St Suite 310

City, State, ZIP: Essequah WA 98027

Phone: 425-795-0010 Email: Allyn@gscsc.com

SAMPLERS (signature)		PO #	
PROJECT NAME		INVOICE TO	
<u>Health Bas</u>		<u>424198</u>	
REMARKS		Project specific RIS? - Yes / No	
<u>424198</u>			

Standard turnaround RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes																		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270		PCBs EPA 8082																	
B-16:2	71	1/26/21	1616	Soil	1																									
B-16:2.5	72		1612																											
B-16:5	73		1014																											
B-16:10	74		1616																											
DPP-7	75																													
B-17:8.5	76		1024																											
B-17:2	77		1026																											
B-17:3	78		1628																											
B-17:5	79		1630																											
B-17:10	80		1632																											

Relinquished by:	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by:	<u>[Signature]</u>	<u>Wesley Weibing</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1000</u>
Relinquished by:	<u>[Signature]</u>	<u>Phan Phan</u>	<u>FeBI</u>	<u>5</u>	<u>00</u>
Received by:					

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8382

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 9 of 21

Report To Nate H. Hooper

Company TRC

Address 1800 NW Market St, Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-295-0075 Email NHooper@trccorp.com

SAMPLERS (signature)	
PROJECT NAME	<u>Track Trax</u>
REMARKS	<u>4/2/198</u>
PO#	
INVOICE TO	

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-18:0.5	81	1/26/21	1046	Soil	1							X	Pb, As, Cd	Hotel Run
B-18:1.8	82		1042		1							X		per run
B-18:2	83		1044		1							X		2/1/21
B-18:4.2	84		1046		1							X		
B-18:10	85		1048		1							X		
B-19:0.5	86		1100		1							X		
B-19:1	87		1102		1							X		
B-19:3	88		1104		1							X		
B-19:10	89		1106		1							X		
DOP-8	90				1							X		

Relinquished by:	<u>[Signature]</u>	PRINT NAME	<u>Wesley Weirberg</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	<u>1000</u>
Received by:	<u>[Signature]</u>	PRINT NAME	<u>Wen Phan</u>	COMPANY	<u>FE BI</u>	DATE	<u>2/1/21</u>	TIME	<u>1000</u>
Relinquished by:		PRINT NAME		COMPANY		DATE		TIME	
Received by:		PRINT NAME		COMPANY		DATE		TIME	

Samples received at 5 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102506

Report To Nate Hinderger

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Seaguck WA 98027

Phone 425-395-2010 Email NHinderger@trcenvironment.com

SAMPLE CHAIN OF CUSTODY

ME 02/10/21

605

Page # 10 of 31

SAMPLERS (signature) [Signature] PO # [Blank]

PROJECT NAME Hacker Bar

REMARKS 421198

INVOICE TO

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other _____

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-20:05	91	1/26/21	1114	Soil	1								X	4/10/20
B-20:1	92		1116		1								X	per wu
B-20:3	93		1118		1								X	2/1/21
B-20:1b	94		1128		1								X	
B-21:0.5	95		1236		1								X	
B-21:2	96		1238		1								X	
B-21:3	97		1240		1								X	
B-21:5	98		1242		1								X	
B-21:1a	99		1244		1								X	
B-22:0.5	100		1254		1								X	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Wesley Werby</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1000</u>
Relinquished by:		<u>Nhan Phan</u>			
Received by:					

Samples received at 5 °C

SAMPLE CHAIN OF CUSTODY

102006

ME 02/01/21

Page # 11 of 81

POS

Report To Mate Hingray

Company TRC

Address 180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 415-395-0011 Email MHingray@Trc.com

SAMPLERS (signature) [Signature] PO # _____

PROJECT NAME Alaska Bros

REMARKS 4249#

INVOICE TO _____

Can Project specific RIS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other _____

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
R-22:15	101	1/26/21	1256	Soil	1								X	Pb, As, Cd	HST/Bun
R-22:2.5	102		1358										X		per wwd
R-22:4	103		1300										X		2/1/21
R-22:10	104		1302										X		
R-23:8.5	105		1334										X		
R-23:1.5	106		1336										X		
R-23:2	107		1338										X		
R-23:4	108		1340										X		
R-23:10	109		1342										X		
100-9	110												X		

Received by: [Signature] PRINT NAME Walter Auerberg COMPANY TRC DATE 2/1/21 TIME 1000

Relinquished by: [Signature] PRINT NAME Walter Auerberg COMPANY TRC DATE 2/1/21 TIME 1000

Received by: [Signature] PRINT NAME Mhan Phan COMPANY TRC DATE 2/1/21 TIME 1000

Relinquished by: [Signature] PRINT NAME Mhan Phan COMPANY TRC DATE 2/1/21 TIME 1000

Received by: _____ PRINT NAME _____ COMPANY _____ DATE _____ TIME _____

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

ME 02/01/21 12 of 31

CVS

Report To Mike Himpinger
 Company TRC
 Address 1180 NW Myrtle St. Suite 310
 City, State, ZIP Beaverton, OR 97007
 Phone 425-395-2016 Email Mike.himpinger@trc.com

SAMPLERS (signature) [Signature]
 PROJECT NAME Track Bas
 REMARKS 421198
 PO # [Blank]
 INVOICE TO [Blank]

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-24:05	111	1/26/21	1416	Sil	1								X	Pb, As, Cd	Hot Run
B-24:2	112		1418										X		per MW 2/1/21
B-24:3	113		1420										X		
B-24:5	114		1422										X		
B-24:10	115		1424										X		
DUP-10	116												X		
B-25:05	117		1434										X		
B-25:2	118		1436										X		
B-25:2.5	119		1438										X		
B-25:5	120		1440										X		

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 885-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Walter Webster</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1000</u>
Received by: <u>[Signature]</u>	<u>Nhan Phan</u>	<u>FeBE</u>		
Relinquished by: _____				
Received by: _____				

Samples received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

WE 02/01/21

Page # 15 of 21

Report To Mate Hays

Company JRC

Address 180 NW Maple St Suite 310

City, State, ZIP Stoughton WA 98027

Phone 425-355-2010 Email MHays@jrc.com

SAMPLERS (signature)

PROJECT NAME

Track Bar

REMARKS

9/24/98

PO #

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082

Pb, As, Cd

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B-25:10	121	1/26/21	1442	Soil	1								
B-26:8.5	122	1/27/21	0958		1								
B-26:2	123		1000		1								
B-26:2.5	124		1002		1								
B-26:5	125		1004		1								
B-26:10	126		1006		1								
B-27:0.5	127		1016		1								
B-27:7	128		1018		1								
B-27:4	129		1020		1								
B-27:10	130		1022		1								

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	<u>Andy Weber</u>	<u>JRC</u>	<u>2/1/21</u>	<u>1000</u>
<i>[Signature]</i>	<u>Nhan Phan</u>	<u>F&B</u>		
Received by:			Samples received at	°C

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

BOS

Page # 14 of 31

Report To Nick Hissner

Company TRC

Address 1180 NW Maple St. Suite 810

City, State, ZIP Traguard WA 98027

Phone 425-345-0016 Email NHissner@TRC.com

SAMPLERS (signature)	PO #
PROJECT NAME	INVOICE TO
<u>Track Bas</u>	
REMARKS	
<u>424198</u>	

TURNAROUND TIME	SAMPLE DISPOSAL
<input checked="" type="checkbox"/> Standard turnaround	<input type="checkbox"/> Archive samples
<input type="checkbox"/> RUSH	<input type="checkbox"/> Other
Rush charges authorized by:	Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082							
B-27:1b	131	1/27/21	1024	Soil	1														
DDP-11	132																		
B-28: 0.5	133																		
B-28: 1.5	134																		
B-28: 2	135																		
B-28: 4	136																		
B-28: 10	137																		
B-29: 0.5	138																		
B-29: 1	139																		
B-29: 3	140																		

Relinquished by:	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by:	<u>[Signature]</u>	<u>Wah Pham</u>	<u>TRC</u>	<u>2/1/21</u>	<u>100d</u>
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21 Page # 15 of 31

Report To Nate Haggard

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Sequim WA 98221

Phone 425-315-2014 Email NHaggard@trc.com

SAMPLERS (signature)	
PROJECT NAME	<u>Track Bar</u>
PO #	
REMARKS	<u>4-2414 B</u>
INVOICE TO	
Project specific RIS? - Yes / No	

TURNAROUND TIME	Standard turnaround
SAMPLE DISPOSAL	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B-29:10	141	1/27/21	1048	Soil	1											
B-30:05	142		1120											X		Hold per MW 2/1/21
B-30:2	143		1122											X		
B-30:3	144		1124											X		
B-30:5	145		1126											X		
B-30:10	146		1128											X		
B-31:05	147		1136											X		
B-31:1	148		1138											X		
B-31:3	149		1140											X		
B-31:10	150		1142											X		

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:		<u>Nate Haggard</u>		<u>TRC</u>		<u>2/1/21</u>		<u>1000</u>	
Received by:		<u>Wen Pham</u>		<u>FE BI</u>					
Relinquished by:									
Received by:									

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 265-8282

Samples received at 5 PG

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21 16 of 21

Report To Nate Kingrey

Company TRC

Address 1186 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-345-0618 Email Nkingrey@trcinc.com

SAMPLERS (signature)	PO#
PROJECT NAME <u>Hack Bas</u>	INVOICE TO
REMARKS <u>4/24/18</u>	Project specific RLS? - Yes / No

TURNAROUND TIME <u>16</u> of <u>21</u>
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> ARCHIVE <input type="checkbox"/> Other Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-32:0.5	151	1/27/21	1148	Soil	1								X	Pb, As, Cd	Halt Run
B-32:2	152		1158		1								X		per w/d
B-32:3	153		1152		1								X		2/1/21
B-32:5	154		1154		1								X		
B-32:10	155		1156		1								X		
B-33:0.5	156		1208		1								X		
B-33:1	157		1210		1								X		
B-33:3	158		1212		1								X		
B-33:10	159		1214		1								X		
DDA-13	160				1								X		

Relinquished by:	<u>[Signature]</u>	PRINT NAME	<u>Nancy Webster</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	
Received by:	<u>[Signature]</u>	PRINT NAME	<u>Nhan Phan</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	<u>10:00</u>
Relinquished by:		PRINT NAME		COMPANY		DATE		TIME	
Received by:		PRINT NAME		COMPANY		DATE		TIME	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21 805
Page # 17 of 31

Report To Matt Hays

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 7253512016 Email Matt.Hays@trc.com

SAMPLERS (signature)		PO #
PROJECT NAME		INVOICE TO
REMARKS		

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard turnaround	SAMPLE DISPOSAL
<input type="checkbox"/> RUSH	
Rush charges authorized by: _____	
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-34:0.5	161	1/27/21	1226	Soil	1										Hold Run
B-34:1.5	162		1228		1										per MW 2/1/21
B-34:2.5	163		1230		1										
B-34:4	164		1232		1										
B-34:10	165		1234		1										
DUP-14	166														
B-35:0.5	167		1240		1										
B-35:2	168		1242		1										
B-35:3	169		1244		1										
B-35:5	170		1246		1										

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		Meyer Anthony		TRC		2/1/21	1000
Received by: <u>[Signature]</u>		Phan Phan		FBI			
Relinquished by:							
Received by:							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

Report To North Aerospace

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Tussock WA 99027

Phone 425-347-0010 Email Missy@trc.com

Page # 18 of 31 Eos

SAMPLERS (signature)	
PROJECT NAME	PO#
REMARKS	INVOICE TO
<u>Hack Bus</u>	<u>424148</u>
Project specific RIS? - Yes / No	

TURNAROUND TIME
SAMPLE DISPOSAL
Standard turnaround
RUSH
Flash charges authorized by:
Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-35:10	171	1/27/21	1248	Soil	1							X	Pb, As, Cd	Hold Run
B-36:05	172		1346		1							X		per wh
B-36:2	173		1348		1							X		
B-36:4	174		1350		1							X		
B-36:6	175		1352		1							X		
B-36:10	176		1354		1							X		
B-37:05	177		1400		1							X		
B-37:2.5	178		1402		1							X		
B-37:4	179		1404		1							X		
B-37:6	180		1408		1							X		

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		<u>Wendy Marbury</u>		<u>TRC</u>			
Received by: <u>[Signature]</u>		<u>Phan Phan</u>		<u>FABI</u>		<u>2/1/21</u>	<u>1000</u>
Relinquished by:							
Received by:						<u>5</u>	<u>00</u>

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

D05

Page # 19 of 31

102006
 Report To: Matt Fitzgerald
 Company: TRC
 Address: 1180 NW Maple St Suite 310
 City, State, ZIP: Issaquah WA 98027
 Phone: 425-395-0510 Email: Matt.Fitzgerald@trcmfg.com

SAMPLERS (signature) 	PROJECT NAME <u>Huckle Bros</u>	PO #
REMARKS <u>425 198</u>	INVOICE TO	
Project specific RLS? - Yes / No		

TURNOVER TIME

Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Pb, As, Cd					
B-37:1A	181	1/27/21	1408	Soil	1													
DUP-15	182																	
B-38:0.5	183		1416		1													
B-38:1	184		1418		1													
B-38:3	185		1420		1													
B-38:1B	186		1422		1													
B-39:0.5	187	1/28/21	0916		1													
B-39:2	188		6118		1													
B-39:5	189		0920		1													
B-39:7	190		0922		1													

Hold per mail 2/1/21

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Walter Weisberg	TRC		
Received by:	Nhan Phan	FEBI	2/1/21	1000
Relinquished by:				
Received by:		Samples received at		

Friedman & Bryce, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 20 of 31

Report To Nat. Highway

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-345-0010 Email nathighway@trc.com

SAMPLERS (signature)	
PROJECT NAME	<u>Health Bas</u>
REMARKS	<u>425 198</u>
INVOICE TO	

Project specific RLS? - Yes / No

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes							
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		Pb, As, Cd						
B-39:10	191	1/23/21	0924	Soil	1															
Duplicate	192																			
B-40:0.5	193		0938		1															
BAD:2	194		0940		1															
B-40:3.5	195		0942		1															
B-40:5.5	196		0944		1															
B-40:10	197		0946		1															
B-41:0.5	198		0950		1															
B-41:1.5	195		0952		1															
B-41:2.5	200		0954		1															

Relinquished by:		PRINT NAME	<u>Abeley Weiberg</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	
Received by:		PRINT NAME	<u>Phan Phan</u>	COMPANY	<u>FLBE</u>	DATE	<u>2/1/21</u>	TIME	<u>1000</u>
Relinquished by:		PRINT NAME		COMPANY		DATE		TIME	
Received by:		PRINT NAME		COMPANY		DATE		TIME	<u>5:00</u>

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

2/1/21

Report To Nate Hysinger

Company TRC

Address 1180 Wood Maple St, Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-1410 Email nhysinger@trccorp.com

SAMPLERS (signature)		PROJECT NAME	
		<u>Hacker Bros</u>	
REMARKS		INVOICE TO	
<u>4/24/92</u>			

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-41:5	201	1/28/11	0956	Sail	1								X	P6, A, C	
B-41:10	202		0958										X		1 per wind
DUP-17	203												X		2/1/21
B-42:0.5	204		1610										X		
B-42:2	205		1612										X		
B-42:4.5	206		1614										X		
B-42:6	207		1616										X		
B-42:10	208		1618										X		
B-43:8.5	209		1622										X		
B-43:7	210		1024										X		

Relinquished by:	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by:		<u>Wesley Hysinger</u>	<u>TRC</u>	<u>2/1/21</u>	<u>1000</u>
Relinquished by:		<u>Phan Phan</u>	<u>FUBI</u>		
Received by:				Samples received at <u>5</u>	<u>00</u>

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-3282

SAMPLE CHAIN OF CUSTODY

102006

ME 02/01/21

Page # 22 of 31

Report To: Nate Hingsperger

Company: TRC

Address: 1180 NW Maple St, Suite 210

City, State, ZIP: Esquah WA 98027

Phone: 425-397-0010 Email: Nate.Hingsperger@TRC.com

SAMPLERS (signature)	
PROJECT NAME	<u>Haacke Bros</u>
REMARKS	<u>4/24/98</u>
INVOICE TO	
PO #	
Project specific RIs? - Yes / No	

<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____	SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days
---	---

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-43:4	211	1/29/21	1026	Soil	1							X	Pb, As, Cd		
B-43:6	212		1028		1							X			Hold Run per MW
B-43:10	213		1030		1							X			2/1/21
B-44:05	214		1040		1							X			
B-44:2	215		1042		1							X			
B-44:4.5	216		1044		1							X			
B-44:6	217		1046		1							X			
B-44:10	218		1048		1							X			
B-45:1	219		1128		1							X			
B-45:3	220		1130		1							X			

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:		Nate Hingsperger		TRC		2/1/21	1000
Received by:		Nathan Phan		FCBI			
Relinquished by:							
Received by:							
Received by:							Samples received at 5 °C

Friedman & Bruyno, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 23 of 31

Report To Nite Hingger

Company TRC

Address 1180 NW Myrtle St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-2010 Email MHingger@trc.com

SAMPLERS (signature)

PROJECT NAME

Track Bar

4/24/98

INVOICE TO

PO #

REMARKS

Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
B-45:2	221	1/20/21	1132	Soil	1													
B-45:6	222		1134															
B-45:10	223		1136															
DOP-18	224																	
B-46:0.5	225		1140															
B-46:2	226		1142															
B-46:3	227		1144															
B-46:5	228		1146															
B-46:10	229		1148															
B-47:0.5	230		1152															

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: [Signature]

Relinquished by: Walter Moberg

Relinquished by: TRC

Relinquished by: 2/1/21

Received by: [Signature]

Received by: Whan Phan

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

Received by: [Signature]

Received by: TRC

Received by: 2/1/21

SAMPLE CHAIN OF CUSTODY

102006

Report To: Mate Hingray

Company: TRC

Address: 180 NW Maple St Suite 316

City, State, ZIP: Issaquah WA 98027

Phone: 425-395-0510 Email: Mate.Hingray@TRC.com

SAMPLERS (signature)

PROJECT NAME

Hack Bas

REMARKS

4/24/98

PO #

INVOICE TO

HC 22/01/21 000
24 of 31

TURNAROUND TIME

Standard turnaround
 RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes								
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082									
B-47:2	231	1/28/21	1154	Soil	1																
B-47:2.5	232		1156		1																
B-47:4.5	233		1158		1																
B-47:10	234		1200		1																
DUP-19	235																				
B-48:1	236		1220		1																
B-48:3	237		1222		1																
B-48:5	238		1224		1																
B-48:7	239		1226		1																
B-48:10	240		1228		1																

SIGNATURE

PRINT NAME

COMPANY

DATE TIME

Relinquished by: [Signature]

Wesley Hingray

TRC

Received by: [Signature]

Phan Phan

TRC

Relinquished by:

Received by:

Samples received at 5

Friedman & Bryner, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

102006

Report to Mark Hanger

Company TRC

Address 180 Alw Maple St. Suite 310

City, State, ZIP Troy WA 98017

Phone 425-851-0010 Email MarkHanger@TRC.com

ME 02/01/21 25 of 31

SAMPLERS (signature)	
PROJECT NAME	<u>Hack Bay</u>
REMARKS	<u>424198</u>
PO #	
INVOICE TO	

TURNAROUND TIME
 Standard turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-49:1	241	1/28/21	1330	Soil	1								X	Pb, As, Cd	
B-49:3	242		1332		1								X		Htd Pm
B-49:5	243		1334		1								X		per mail 2/1/21
B-49:7	244		1336		1								X		
B-49:10	245		1338		1								X		
DOP-20	246		---		1								X		
B-SD:0.5	247		1344		1								X		
B-SD:2.5	248		1346		1								X		
B-SD:3.5	249		1348		1								X		
B-SD:5	250		1350		1								X		

Friedman & Bryna, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

Relinquished by:		PRINT NAME	<u>Lucyley Luclyng</u>	COMPANY	<u>TRC</u>	DATE	<u>2/1/21</u>	TIME	
Received by:			<u>Nguyen Pham</u>		<u>TRC</u>				
Relinquished by:									
Received by:									

Samples received at 5 °C

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21 DWS Page # 26 of 31

Report To Mike Hinzpeter

Company TRC

Address 1180 NW Maple St. Suite 318

City, State, ZIP Lingwood WA 98027

Phone 425-395-4616 Email Mike.Hinzpeter@trc.com

SAMPLERS (signature)		PO #
PROJECT NAME		
REMARKS <u>Back Bas</u>		
INVOICE TO		
Project specific RI's? - Yes / No		

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard turnaround
<input type="checkbox"/> RUSH
Rush charges authorized by:
SAMPLE DISPOSAL
<input type="checkbox"/> Archive samples
<input type="checkbox"/> Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes						
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082							
B-50:10	251	1/28/21	1352	S&1	1														
B-51:0.5	252		1408																
B-51:2	253		1410																
B-51:5	254		1412																
B-51:7	255		1414																
B-51:10	256		1416																
B-52:0.5	257		1422																
B-52:2	258		1424																
B-52:4	259		1426																
B-52:6	260		1428																

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:		Mely Weisber		TRC		2/1/21		1000	
Received by:		Mohan Phani		FCBI					
Relinquished by:									
Received by:									

Friedman & Bryya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

Page # 27 of 31

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Report To Matt Hingpage
 Company MCC
 Address 1180 NW Maple St Suite 310
 City, State, ZIP Issaquah WA 98027
 Phone 425-397-0610 Email M.Hingpage@MCC.com

SAMPLERS (signature) [Signature]

PROJECT NAME Haacke Bas. PO# 4/29/198

REMARKS 4/29/198

INVOICE TO

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
B-52:10	261	1/28/21	1430	Soil	1													Hold per MW
DUP-21	262	1/28/21			1													per MW 2/1/21
B-53:05	263	1/29/21	1030		1													
B-53:2.5	264		1032		1													
B-53:3.5	265		1034		1													
B-53:5.5	266		1036		1													
B-53:10	267		1038		1													
B-54:0.5	268		1040		1													
B-54:2.5	269		1042		1													
B-54:4	270		1044		1													

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8382

Reinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Received by: <u>[Signature]</u>		<u>Wally Weiberg</u>	<u>MCC</u>	<u>2/1/21</u>	<u>1000</u>
Reinquished by: <u>[Signature]</u>		<u>Wnan Phan</u>	<u>FE BI</u>		
Received by:				Samples received at	<u>5:00</u>

102006

Report To Nate Hingsper

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email NHingsper@trc.com

SAMPLERS (signature) <u>[Signature]</u>	PROJECT NAME <u>Back Bay</u>	PO # <u>[Signature]</u>
REMARKS <u>4/28/198</u>	INVOICE TO	

<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by:	SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B-54:6	271	1/29/21	1046	Soil	1								X	Pb, As, Cd	Hot Run
B-54:10	272		1048										X		per run 2/1/21
DDP-22	273												X		
B-55:0.5	274		1050										X		
B-55:2	275		1052										X		
B-55:3	276		1054										X		
B-55:5	277		1056										X		
B-55:10	278		1058										X		
DDP-73	279												X		
B-56:0.5	280		1106										X		

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by: <u>[Signature]</u>		<u>Nate Hingsper</u>		TRC		2/1/21		1000	
Received by: <u>[Signature]</u>		<u>Nhan Phan</u>		F&BI					
Relinquished by:									
Received by:				Samples received at					

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

NE 02/01/21

POS

Report To: Nate Hingberger

Company: TRC

Address: 1186 NW Maple St. Suite 310

City, State, ZIP: Tigard, OR 97127

Phone: 503-295-8014 Email: NHingberger@trc.com

SAMPLERS (signature) _____

PROJECT NAME _____

PO# _____

REMARKS
Handle Box
4/21/198

INVOICE TO

Project specific RLS? - Yes / No

Page # 29 of 31

TURNAROUND TIME

Standard turnaround
 RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
B-56:2	281	1/29/21	1108	Soil	1												Held/Run	
B-56:3	282		1110		1													per MW 2/1/21
B-56:5	283		1112		1													
B-56:10	284		1114		1													
B-57:6.5	285		1116		1													
B-57:1.8	286		1118		1													
B-57:2	287		1120		1													
B-57:3.5	288		1122		1													
B-57:10	289		1124		1													
DUP-24	290				1													

Friedman & Bruyno, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Reinquished by: _____ SIGNATURE

Received by: [Signature]

PRINT NAME

Wendy Westby

COMPANY

TRC

DATE

2/1/21

TIME

1000

Reinquished by: _____

Received by: [Signature]

Whan Phan

Ferri

Samples received at 5:00

SAMPLE CHAIN OF CUSTODY

102006

Report To State Inspector

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0212 Email Allyson@TRC.com

ME 02/01/21 20 of 31

SAMPLERS (signature)	PROJECT NAME	PO #
<i>[Signature]</i>	Hatch Box	
	REMARKS	INVOICE TO
	424198	

Page # 20 of 31

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082							
B-58: 0.5	291	1/29/21	1136	Soil	1											X			Hatch Box
B-58: 1	292		1139													X			per MW
B-58: 3	293		1140													X			2/1/21
B-58: 10	294		1142													X			
B-59: 0.5	295		1150													X			
B-59: 1.5	296		1152													X			
B-59: 2.5	297		1154													X			
B-59: 4.5	298		1156													X			
B-59: 10	299		1158													X			
B-60: 0.5	300		1206													X			

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:	<i>[Signature]</i>	Myla Webb		TRC		2/1/21			
Received by:	<i>[Signature]</i>	Mona Phara		FRBI					1000
Relinquished by:									
Received by:									5:00

Friedman & Bruyca, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

102006

SAMPLE CHAIN OF CUSTODY

ME 02/01/21

BOS

Report To Noté Hinsperger
 Company TRC
 Address 1180 NW Maple St. Suite 310
 City, State, ZIP Issaquah WA, 98027
 Phone 425-395-0010 Email nhinsperger@trccamp.com

SAMPLERS (signature) _____
 PROJECT NAME Haacker Bros
 REMARKS 424198
 INVOICE TO _____
 PO # _____

Page # 31 of 31
 TURNAROUND TIME _____
 Standard turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED															
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082									
B-60:2	301	1/29/21	12:38	Soil	1								X								
B-60:3	302		12:10										X								
B-60:5	303		12:12										X								
B-60:10	304		12:14										X								
Dwp-12	305	1/27/21		Soil	1																

V-per WUD
 02/16/21
 Nides

Added at lab
 (ND) 2/1/21

Reinquished by: _____ SIGNATURE
 PRINT NAME
 COMPANY
 DATE TIME
 Received by: _____
 PRINT NAME
 COMPANY
 DATE TIME
 Samples received at _____

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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 x5
Date Analyzed:	10/27/21	Data File:	110506-01 x5.082
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	33.8
----------	------

FRIEDMAN & BRUYA, INC.

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
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

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	30.2
----------	------

FRIEDMAN & BRUYA, INC.

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
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

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Chromium	27.4
Lead	622

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	10/27/21	Lab ID:	I1-685 mb2
Date Analyzed:	10/27/21	Data File:	I1-685 mb2.057
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	mg/L (ppm)	1.0	<1	92	89	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	mg/L (ppm)	1.0	93	80-120

FRIEDMAN & BRUYA, INC.

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

SAMPLE CHAIN OF CUSTODY

ME 10/27/21 BT2

Report To Wesley Weiberg

Company TBC

Address 1180 NW Maple St Suite 370

City, State, ZIP Issaquah WA 98027

Phone 425-395-2210 Email WesleyWeiberg@starcap.com

SAMPLERS (signature)	
PROJECT NAME <u>Haas Brothers</u>	PO#
REMARKS <u>424198</u>	INVOICE TO

TURNAROUND TIME <input type="checkbox"/> Standard turnaround <input checked="" type="checkbox"/> RUSH <u>ASAP</u> Rush charges authorized by:	SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days
--	---

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	RCRA 8 metals	TCLP Pb	Other				
R11-1:3	01AB	10/27/21	5905	Soil	2														to include As, Cd, Pb
R19-1:3	02	10/27/21	0925		1														
R21-1:3	03	10/27/21	0932		1														
R15-1:3	04	10/27/21	0945		1														

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:		<u>Wesley Weiberg</u>		<u>TBC</u>		<u>10/27/21</u>	<u>10am</u>		
Received by:		<u>WVH</u>		<u>FBI</u>		<u>10/27/21</u>	<u>1:00</u>		
Relinquished by:									
Received by:									

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	14.5
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FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	17.1
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FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	13.5
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	9.82
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	8.45
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FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	27.1
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	14.4
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.74
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.30
Lead	4.85

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	4.48
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	28.1
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.28
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	<1
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Cadmium	1.06
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.15
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
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Arsenic	5.63
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.79
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.33
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	13.3
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	9.44
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance 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

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	85	85	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	88	80-120

FRIEDMAN & BRUYA, INC.

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.

SAMPLE CHAIN OF CUSTODY ME 10/27/21

116535

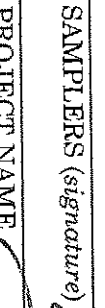
Report to Walter Weiberg

Company TRC

Address 1180 New Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-595-0510 Email Walter.Weiberg@trc.com

SAMPLERS (signature) 

PROJECT NAME Hackle Brothers

TURNAROUND TIME
 Standard turnaround
 RUSH 4/24/21
Rush charges authorized by: _____

REMARKS
4/24/198

INVOICE TO

SAMPLE DISPOSAL
 Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082			
B15W-N:0.5	01	10/27/21	1115	Soil	1										(P) per MW 10/27/21 ME
B15W-E:0.5	02		1116												
B15W-S:0.5	03		1117												
B15W-W:0.5	04		1118												
B1B-1:1.5	05		1119												
B1B-2:1.5	06		1120												
B14SW-W:3	07		1300												
B14SW-W:3	08		1355												
B14SW-E:3	09		1356												
B14SW-S:3	10		1357												

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Relinquished by: Jessica Soize

Received by: Jessica Soize

Jessica Soize

Jessica Soize

TRC

TRC

10/22/21 1930

10/27/21 1930

Received by:

Samples received at 4 °C

110535

SAMPLE CHAIN OF CUSTODY ME 10/27/21

Page # 2 of 3

Report To Wesley Weisberg

Company TRC

Address 1180 NW Maple St. Suite 318

City, State, ZIP Issaquah, WA 98027

Phone 425-375-0516 Email wweisberg@trc.com

SAMPLERS (signature)	PO #
PROJECT NAME	INVOICE TO
Haack Brothers	
REMARKS	
424198	

TURNAROUND TIME

Standard turnaround

RUSH **ASAP**

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B14B-1:4	11	10/27/21	1358	Soil	1												
B14B-2:4	12		1359														
B41SW-N:2.5	13		1530														
B41SW-E:2.5	14		1531														
B41SW-S:2.5	15		1532														
B41SW-W:2.5	16		1533														
B41B-1:3.5	17		1534														
B41B-2:3.5	18		1535														
B24SW-N:5	19		1710														
B24SW-E:5	20		1711														

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Jessica Folie	TRC	10/27/21	19:30
	Eric Johnson	TRC	10/27/21	19:00
Received by:				
Received by:				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

1105335

SAMPLE CHAIN OF CUSTODY

ME 10/27/21

814

Report To Wesley Weisberg

Company TRC

Address 1180 NW Maple St. Suite 810

City, State, ZIP Trappah WA 98027

Phone 425-395-0010 Email wweisberg@trccorp.com

SAMPLERS (signature)

PROJECT NAME

Hack Bros

REMARKS

424198

PO #

INVOICE TO

Page # 3 of 3

TURNAROUND TIME

Standard turnaround
 RUSH ASAP
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other
Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082							
B24SM-S:5	R1	10/27/21	1712	SIL	1														
B24SM-W:5	R2		1713		1														
B24B-1:6	R3		1714		1														
B24B-2:6	R4		1715		1														

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Reinforced by: Jessica Soitz

Jessica Soitz

TRC

10/27/21

030

Reinforced by:

Ser Leiva

TRC

10/27/21

192

Received by:

Received by:

Samples received at

4

00

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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
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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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	4.94
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	5.99
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	5.26
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	9.49
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	9.30
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Lead	6.84
------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	26.3
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	10.7
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.73
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	11.9
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.23
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	15.4
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	20.0
Lead	202

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	26.6
Lead	92.5

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	23.8
Lead	66.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.3
Lead	149

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.09
Lead	4.88

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	12.4
Lead	12.6

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	88	80-120
Lead	mg/kg (ppm)	50	94	80-120

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	14.2	94	81	75-125	15
Lead	mg/kg (ppm)	50	148	212 b	154 b	75-125	32 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Lead	mg/kg (ppm)	50	99	80-120

FRIEDMAN & BRUYA, INC.

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.

110569

SAMPLE CHAIN OF CUSTODY

10-28-21

BZY

Page # 1 of 2

Report To: Nestlé Waters Inc

Company: TRC

Address: 1180 NW Maple St., Suite 310

City, State, ZIP: Issaquah, WA 98027

Phone: 206-295-0000 Email: nw@waters.com

SAMPLERS (signature) Jessica Seitz

PROJECT NAME

Harack Brothers

PO #

REMARKS

421198

INVOICE TO

Project specific RLS? - Yes / No

TURNAROUND TIME

Standard turnaround

RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	As only	Pb only				
B11SN-N:3	01	10/28/21	1030	SML	1													
B11SM-E:3	02		1031		1													
B11SN-S:3	03		1032		1													
B11SM-W:3	04		1033		1													
B11B-1:4	05		1034		1													
B11B-2:4	06		1035		1													
B56SN-N:3	07		1400		1													
B56SN-E:3	08		1401		1													
B56SN-S:3	09		1402		1													
B56SN-W:3	10		1403		1													

SIGNATURE

Relinquished by: Jessica Seitz

PRINT NAME

Jessica Seitz

COMPANY

TRC

DATE

10/28

TIME

1930

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

Received by: [Signature]

Eric Jan

TRC

10/28

1930

Relinquished by:

Received by: 4 pc

110569
 10-28-21
 BIZ 2 of 2

Report To Nestley Weisberg
 Company TRC
 Address 1180 NW Maple St., Suite 310
 City, State, ZIP Issaquah WA 99007
 Phone 425-395-0010 Email WWeisberg@trc.com
WWeisberg@trc.com

SAMPLERS (signature) <u>Jessica Saliz</u>	
PROJECT NAME <u>Hack Brothers</u>	PO#
REMARKS <u>424198</u>	INVOICE TO
Project specific RIs? - Yes / No	

Page # _____ of _____

TURNAROUND TIME

Standard turnaround
 RUSH ASAP
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Archive samples
 Other _____
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	As Only		Pb only			
B56B-1:4	11	10/28/21	1404	SOIL	1													
B56B-2:4	12		1405		1								X					
B21SN-N:3	13		1615		1								X					
B21SN-E:3	14		1616		1								X					
B21SN-S:3	15		1617		1								X					
B21SN-W:3	16		1618		1								X					
B21B-1:4	17		1619		1								X					
B21B-2:4	18		1620		1								X					

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Relinquished by: <u>Jessica Saliz</u>	<u>Jessica Saliz</u>	Jessica Saliz		TRC	10/28	1730
Received by: <u>Jessica Saliz</u>	<u>Jessica Saliz</u>	Jessica Saliz		TRC	10/28	1930
Relinquished by:						
Received by:						

Samples received at 4 °C

Friedman & Bryna, Inc.
 3012 1st Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.86
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	14.1
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.52
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	11.9
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	24.8
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.97
Lead	4.26

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.94
Lead	21.5

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	18.1
Lead	119

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	17.5
Lead	37.0

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	22.0
Lead	52.2

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	110
---------	-----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	19.6
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.39
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	18.9
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.48
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.20
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	10.1
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.56
---------	------

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Lead	mg/kg (ppm)	50	95	80-120

FRIEDMAN & BRUYA, INC.

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.

110599

SAMPLE CHAIN OF CUSTODY

10-29-321

B14

Report To Wesley Weisberg

Company TRC

Address 1140 NW Maple St, Suite 310

City, State, ZIP WA 98017

Phone 4253950010 Email complaints.com

SAMPLERS Jessica Slitz

PROJECT NAME Haavel Brothers

REMARKS 424198

PO #

INVOICE TO

Project specific Pls? - Yes / No

Page # 1 of 2

TURNAROUND TIME

Standard turnaround

RUSH ASAP

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B25SW-N:2.5	01	10/29/21	1050	Soil	1											
B25SW-S:2.5	02		1051		1											
B25SW-W:2.5	03		1052		1											
B25B-1:3.5	04		1053		1											
B25B-2:3.5	05		1054		1											
B15SW-N:3	06		1320		1											
B15SW-S:3	07		1321		1											
B15SW-W:3	08		1322		1											
B15B-1:4	09		1323		1											
B15B-2:4	10		1324		1											

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Jessica Slitz</u>	Jessica Slitz	TRC	10/29/21	1702
<u>VIN T</u>	VIN T	FBI	10/29/21	1700
Received by:		Samples received at		

110599

SAMPLE CHAIN OF CUSTODY

10-29-21

B14

Report To Wesley Weisberg

Company TRC

Address 1180 NW Nuprest, Suite 316

City, State, ZIP Issaquah WA

Phone 425-395-0010 Email comprnec.com

SAMPLERS (signature) Jessica Soic
 PROJECT NAME Hawk Brothers
 PO #

REMARKS 124198

INVOICE TO

Project specific RI? - Yes / No

Page # 2 of 2

TURNAROUND TIME

- Standard turnaround
 - RUSH FBP
- Rush charges authorized by: _____

SAMPLE DISPOSAL

- Archive samples
 - Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082								
B19SN-N:3	11	10/29/21	1450	Soil	1															
B19SN-E:3	12		1451		1															
B19SN-S:3	B		1452		1															
B19SN-W:3	14		1453		1															
B19B-1:4	15		1454		1															
B19B-2:4	16		1455		1															
B1B-2:2.5	17		1520		1															
B14B-1:5	18		1530		1															

Received by: Jessica Soic SIGNATURE

Received by: WVH PRINT NAME

Relinquished by: Jessica Soic SIGNATURE

Relinquished by: WVH PRINT NAME

Company: TRC COMPANY

Company: FBP COMPANY

Date: 10/29/21 DATE

Date: 10/29/21 DATE

Time: 1702 TIME

Time: 1710 TIME

Samples received at 6 o'clock

Friedman & Bryna, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-01 x5
Date Analyzed:	11/03/21	Data File:	111021-01 x5.083
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.39
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-02 x5
Date Analyzed:	11/03/21	Data File:	111021-02 x5.085
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.69
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-03 x5
Date Analyzed:	11/05/21	Data File:	111021-03 x5.288
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<5
---------	----

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-05 x5
Date Analyzed:	11/05/21	Data File:	111021-05 x5.289
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<5
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	1.08
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	I1-707 mb
Date Analyzed:	11/03/21	Data File:	I1-707 mb.060
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	76	79	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	89	80-120

FRIEDMAN & BRUYA, INC.

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.

111021

SAMPLE CHAIN OF CUSTODY

ME

11-2-21

of BT-2

Report To: Wesley Weisberg

Company: TRC

Address: 1180 NW Maple St. Suite 310

City, State, ZIP: Issaquah WA 98027

Phone: 425-355-6510 Email: Wesley@trc.com

SAMPLERS (signature)

PROJECT NAME

Hack Bas

PO #

REMARKS

424198

INVOICE TO

Page #

TURNAROUND TIME

Standard turnaround

RUSH 4:00

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B15B-2:5	01	11/2/21	0915	Soil	1											
B19SW2-N:3	02	11/2/21	1025	Soil	1											
B21SW2-S:3	03	11/2/21	1045	Soil	1											
B21SW2-N:3	04	11/2/21	1100	Soil	1											Hold
B25B-2:4.5	05	11/2/21	1120	Soil	1											
B56SW2-N:3	06	11/2/21	1150	Soil	1											
																Samples received at 1400

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Wesley Weisberg

TRC

11/2/21

13:29

Received by:

Relinquished by:

Received by:

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

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

FRIEDMAN & BRUYA, INC.

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>	<u>TRC Environmental</u>
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.

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-01 x5
Date Analyzed:	11/03/21	Data File:	111021-01 x5.083
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.39
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-02 x5
Date Analyzed:	11/03/21	Data File:	111021-02 x5.085
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.69
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-03 x5
Date Analyzed:	11/05/21	Data File:	111021-03 x5.288
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<5
---------	----

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	111021-05 x5
Date Analyzed:	11/05/21	Data File:	111021-05 x5.289
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<5
---------	----

FRIEDMAN & BRUYA, INC.

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

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	1.08
---------	------

FRIEDMAN & BRUYA, INC.

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
Date Extracted:	11/03/21	Lab ID:	I1-707 mb
Date Analyzed:	11/03/21	Data File:	I1-707 mb.060
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

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)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	76	79	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	89	80-120

FRIEDMAN & BRUYA, INC.

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.

111021

SAMPLE CHAIN OF CUSTODY

ME

11-2-21

of BT-2

Report To: Wesley Weisberg

Company: TRC

Address: 1180 NW Maple St. Suite 310

City, State, ZIP: Issaquah WA 98027

Phone: 425-355-6510 Email: Wesley@trc.com

SAMPLERS (signature)

PROJECT NAME

Hack Bas

PO #

REMARKS

424198

INVOICE TO

Page #

TURNAROUND TIME

Standard turnaround
 RUSH 4:00
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples
 Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes				
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B15B-2:5	01	11/2/21	0915	Soil	1												
B19SW2-N:3	02	11/2/21	1025	Soil	1												
B21SW2-S:3	03	11/2/21	1045	Soil	1												
B21SW2-N:3	04	11/2/21	1100	Soil	1												Hold
B25B-2:4.5	05	11/2/21	1120	Soil	1												
B56SW2-N:3	06	11/2/21	1150	Soil	1												
																	Samples received at 1900

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Wesley Weisberg

TRC

11/2/21

13:29

Received by:

Relinquished by:

Received by:

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

Attachment F
Bore Logs



BORING ID: B-1

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; organics; no odor; not fill	60	0.0	B-1:0.5		
1		SILT; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor					
2			90	0.0	B-1:2		
3	ML						
4							
5				0.0			
6	SP-SM	POORLY-GRADED SAND WITH SILT; reddish brown; dry; medium stiff; no odor					
7		SANDY SILT WITH GRAVEL; reddish brown; dry; hard; no odor					
8	ML			0.0			
9							
10		End of Borehole		0.0	B-1:10		End of Borehole

NOTES: No fill present



BORING ID: B-2

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff organics; no odor; not fill		0.0	B-2:0.5		
1		SILT WITH SAND; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor					
2			90		B-2:2		
3							
4							
5	ML			0.0			
6							
7							
8			90	0.0			
9	ML	SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor					
10		End of Borehole		0.0	B2:10		End of Borehole

NOTES: No fill present



BORING ID: B-3

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff organics; no odor; not fill		0.0	B-3:0.5		
1		SILT WITH SAND; light reddish brown; dry; very stiff; medium plasticity; low dilatency; no odor					
2			90	0.0	B-3:2		
3							
4	ML			0.0			
5							
6							
7							
8		SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	80				
9	ML						
10				0.0	B-3:10		End of Borehole

NOTES: No fill present



BORING ID: B-4

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	SP-SW	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-4:0.3 B-4:0.5		
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics					
2	ML	SILT WITH SAND; light reddish brown; dry; very stiff; medium plasticity; slow dilatency; no odor	90	0.0	B-4:2.5		
3		6'-8': moist					
4							
5	ML						
6							
7	ML						
8							
9	ML	SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor					
10							
		End of Borehole		0.0	B-4:10		End of Borehole

NOTES: Fill 0-0.3' bgs



BORING ID: B-5

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	SP-SM	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill			B-5:0.3		
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-5:1		
2		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
3		5'-8': moist	50	0.0	B-5:3		
4	ML						
5				0.0			
6							
7							
8		SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	100	0.0			
9	ML						
10		End of Borehole		0.0	B-5:10		End of Borehole

NOTES: Fill 0-0.3' bgs



BORING ID: B-6

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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; dry; medium stiff; no odor; fill		0.0	B-6:0.5		
1							
2	ML		60	0.0	B-6:2		
3							
4	SP-SM	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					
6				0.0	B-6:6		
7	ML		100				
8							
9							
10		End of Borehole		0.0	B-6:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-7

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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; dry; medium stiff; no odor; fill		0.0	B-7:0.5		
1							
2	ML			0.0	B-7:2		
3			60				
4	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-7:4		
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor 6'-7': moist					
6				0.0	B-7:6		
7	ML						
8				0.0			
9							
10		End of Borehole		0.0	B-7:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-8

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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; dry; medium stiff; no odor; fill		0.0	B-8:0.5		
1	ML						
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	95	0.0	B-8:2		
3		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor; minor sand			B-8:3		
4							
5				0.0	B-8:5		
6	ML						
7							
8			90				
9	ML	SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor					
10		End of Borehole		0.0	B-8:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-9

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	SP-SM	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-9:0.3		
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; fill		0.0	B-9:1		
2		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor; minor sand	60				
3		5'-7': moist			B-9:3		
4							
5	ML			0.0			
6							
7							
8			100				
9	ML	SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor					
10		End of Borehole		0.0	B-9:10		End of Borehole

NOTES: Fill 0-0.3' bgs



BORING ID: B-10

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	SP, SM	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-10:0.3		
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-10:1		
2		SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor; minor sand	50				
3				0.0	B-10:3		
4	ML						
5							
6							
7							
8		SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	100	0.0			
9	ML						
10		End of Borehole		0.0	B-10:10		End of Borehole

NOTES: Fill 0-0.3' bgs



BORING ID: B-11

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
1	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-11:0.5 B-11:1		
2			30				
3		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-11:3		
4	ML						
5				0.0			
6							
7		SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	80				
8	ML			0.0			
9							
10				0.0	B-11:10		End of Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-12

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/25/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-12:0.5		
1	SP-SW	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel			B-12:1		
2			60				
3		SILT WITH GRAVEL; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-12:3		
4		increased moisture		0.0			
5	ML			0.0			
6							
7				0.0			
8		SANDY SILT WITH GRAVEL; reddish brown; dry; stiff; no odor	80				
9	ML						
10		End of Borehole		0.0	B-12:10		End of Borehole

NOTES: Fill 0-0.8' bgs



BORING ID: B-13

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-13:0.5		
1				0.0	B-13:1.5		
2	SP, SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	40		B-13:2		
3							
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor			B-13:4		
5				0.0			
6							
7	ML						
8			100				
9							
10		End of Borehole		0.0	B-13:10		End of Borehole

NOTES: Fill 0–1.5' bgs



BORING ID: B-14

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-14:0.5		
1	ML						
2					B-14:2		
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	80	0.0	B-14:3		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-14:5		
6	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor					
7				0.0			
8	ML	SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	85				
9							
10		End of Borehole		0.0	B-14:10		End of Borehole

NOTES: Fill 0–2.5' bgs



BORING ID: B-15

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-15:0.5		
1	ML						
2					B-15:2		
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	80	0.0	B-15:3		
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
5				0.0	B-15:5		
6							
7	ML						
8			100				
9							
10		End of Borehole		0.0	B-15:10		End of Borehole

NOTES: Fill 0–2.7' bgs



BORING ID: B-16

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	70	0.0	B-16:0.5		
1							
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		
3							
4	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor	70	0.0	B-16:2.5		
5							
6	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	90	0.0			
7							
8							
9							
10		End of Borehole		0.0	B016:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-17

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-17:0.5		
1	ML						
2					B-17:2		
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	80	0.0	B-17:3		
4	SM	SILTY SAND; dark reddish brown; damp; soft; 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							
10		End of Borehole		0.0	B-17:10		End of Borehole

NOTES: Fill 0–2.5' bgs



BORING ID: B-18

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	80	0.0	B-18:0.5		
1							
2	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		
3							
4	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor	80	0.0	B-18:4.2		
5							
6	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	70	0.0			
7							
8							
9							
10				0.0	B-18:10		End of Borehole

NOTES: Fill 0–1.8' bgs



BORING ID: B-19

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-19:0.5 B-19:1		
2	SP, SM		60	0.0			
3					B-19:3		
4							
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
6							
7	ML		70				
8							
9							
10		End of Borehole		0.0	B-19:10		End of Borehole

NOTES: Fill 0–0.5' bgs



BORING ID: B-20

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
0.5	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-20:0.5		
1		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-20:1		
2			50				
3				0.0	B-20:3		
4							
5	ML			0.0			
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 Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-21

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-21:0.5		
1	ML						
2		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	90		B-21:2		
3	SP, SM			0.0	B-21:3		
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor					
5				0.0	B-21:5		
6	ML						
7				0.0			
8			100				
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10		End of Borehole		0.0	B-21:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-22

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-22:0.5		
1	ML				B-22:1.5		
2		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel; charred wood		0.0	B-22:2.5		
3	SP-SM						
4		SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor		0.0	B-22:4		
5	SM						
6		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
7	ML			0.0			
8							
9	ML			0.0			
10		SANDY SILT; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-22:10		
End of Borehole							End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-23

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	60	0.0	B-23:0.5		
1							
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel, burnt wood and brick debris	60	0.0	B-23:1.5 B-23:2		
3							
4							
5	ML		70		B-23:4		
6							
7	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	70	0.0			
8							
9							
10						0.0	B-23:10
		End of Borehole					End of Borehole

NOTES: Fill 0–1.5' bgs



BORING ID: B-24

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-24:0.5		
1	ML						
2					B-24:2		
3		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	75	0.0	B-24:3		
4	SP-SM	charred wood and brick debris					
5		5'-6': increased moisture		0.0	B-24: 5		
6		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
7	ML		100	0.0			
8							
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10		End of Borehole		0.0	B-24:10		End of Borehole

NOTES: Fill 0-2.5' bgs



BORING ID: B-25

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/26/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-25:0		
1	ML						
2	GP	POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; dry; loose; mostly angular gravel; no odor; old fill?			B-25:2		
2.5	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel; burnt/charred wood and brick debris	85	0.0	B-25:2.5		
3	SP-SM						
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	ML						
8	ML		90				
9	ML			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



BORING ID: B-26

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-26:0.5		
1	ML						
2				0.0	B-26:2		
3		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	50	3.5	B-26:2.5		
4	SP-SM			0.8			
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-26:5		
6							
7	ML						
8			100				
9							
10		End of Borehole		0.0	B-26:10		End of Borehole

NOTES: Fill 0–2.5' bgs



BORING ID: B-27

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-27:0.5		
1							
2	ML		60		B-27:2		
3							
4	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.1	B-27:4		
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
6				0.0	B-27:6		
7							
8	ML		100				
9							
10		End of Borehole		0.0	B-27:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-28

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	50	0.0	B-28:0.5			
1								
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel	50	0.0	B-28:1.5 B-28:2			
3								
4								
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-28:4			
6								
7								
8								
9								
10		End of Borehole		0.0	B-28:10		End of Borehole	

NOTES: Fill 0–1.5' bgs



BORING ID: B-29

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; some gravel		0.0	B-29:0.5 B-29:1		
2	SP-SM		90				
3				0.0	B-29:3		
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
5				0.0			
6							
7	ML		100				
8							
9				0.0			
10	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-29:10		End of Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-30

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-30:0.5		
1	ML						
2			60		B-30:2		
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; dynamics; some gravel; burnt/charred wood and brick debris		0.0	B-30:3		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		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							
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-30:10		End of Borehole

NOTES: Fill 0-3' bgs



BORING ID: B-31

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	60	0.0	B-31:0.5		
1	SP, SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel			B-31:1		
2							
3				0.0	B-31:3		
4	SM	SILTY SAND; dark reddish brown; damp; soft; mostly fine sand and silt; no odor					
5				0.0			
6	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0			
7							
8							
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
10		End of Borehole			B-31:10		End of Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-32

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-32:0.5		
1	ML						
2			80		B-32:2		
3		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-32:3		
4	SP, SM						
5		SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-32:5		
6							
7	ML		100				
8							
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10		End of Borehole		0.0	B-32:10		End of Borehole

NOTES: Fill 0-3' bgs



BORING ID: B-33

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-33:0.5 B-33:1		
2	SP-SM		70	0.0			
3					B-33:3		
4							
5		SILT WITH GRAVEL; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
6							
7	ML		85				
8							
9							
10		End of Borehole		0.0	B-33:10		End of Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-34

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	50	0.0	B-34:0.5		
1					B-24:1.5		
2	SP, SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel	50	0.0			
3					B-24:2.5		
4							
5	GP	POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; damp; loose; no odor		0.0			
6	ML	SILT WITH SAND; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	100				
7							
8				0.6			
9							
10		End of Borehole		0.0	B-34:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-35

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-35:0.5		
1	ML						
2			50		B-35:2		
3		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-35:3		
4	SP, SM						
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-35:5		
6							
7	ML		100				
8							
9							
10		End of Borehole		0.0	B-35:10		End of Borehole

NOTES: Fill 0-3' bgs



BORING ID: B-36

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	70	0.0	B-36:0.5		
1							
2						B-36:2	
3							
4	SP, SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-36:4		
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-36:6		
6							
7							
8							
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10		End of Borehole		0.0	B-36:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-37

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	70	0.0	B-37:0.5		
1							
2							
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel	70	0.0	B-37:2.5		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-37:4		
6							
7							
8							
9							
10				0.0	B-37:6		
End of Borehole							End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-38

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/27/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill					
1		POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-38:0.5 B-38:1		
2				0.0			
3	SP-SM		65		B-38:3		
4							
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0			
6							
7	ML						
8			100				
9							
10		End of Borehole		0.0	B-38:10		End of Borehole

NOTES: Fill 0-0.5' bgs



BORING ID: B-39

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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; few organics; fill		0.0	B-39:0.5		
1							
2	ML		50		B-39:2		
3							
4							
5	SP-SM	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					
7	ML		95	0.0	B-39:7		
8							
9	ML	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 Borehole

NOTES: Fill 0-5' bgs



BORING ID: B-40

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; few organics; fill	80	0.0	B-40:0.5		
1							
2						B-40:2	
3	SP-SM	POORLY-GRADED SAND WITH SILT; dark reddish brown; damp; medium stiff; no odor; organics; minor gravel		0.0	B-40:3.5		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-40:5.5		
6							
7							
8	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
9							
10				0.0	B-40:10		End of Borehole

NOTES: Fill 0–3.5' bgs



BORING ID: B-41

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill		0.0	B-41:0.5		
1					B-41:1.5		
2		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	50	0.0	B-41:2.5		
3							
4	SP-SM						
5					B-41:5		
6		SILT WITH SAND; light reddish brown; damp; very stiff; medium plastic; slow dilatency; no odor		0.0			
7							
8	ML		70				
9							
10				0.0	B-41:10		End of Borehole

NOTES: Fill 0–1.5' bgs



BORING ID: B-42

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	60	0.0	B-42:0.5		
1							
2							
3	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	60	0.0	B-42:4.5		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0	B-42:6		
6							
7							
8							
9							
10		End of Borehole		0.0	B-42:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-43

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-43:0.5		
1							
2	ML		80		B-43:2		
3							
4		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-43:4		
5	SP-SM						
6		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-43:6		
7							
8	ML		65				
9							
10		End of Borehole		0.0	B-43:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-44

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-44:0.5		
1							
2	ML		100		B-44:2		
3							
4							
5	SP-SM	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	ML		90				
8							
9							
10				0.0	B-44:10		End of Borehole

NOTES: Fill 0–4.5' bgs



BORING ID: B-45

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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 WILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fil		0.0	B-45:0.5		
1							
2	ML		90				
3					B-45:3		
4	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-45:4		
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
6	ML		100	0.0	B-45:6		
7							
8		SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
9	ML			0.0	B-45:9		
10		End of Borehole		0.0	B-45:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-46

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-46:0.5		
1	ML						
2					B-46:2		
3		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	60	0.0	B-46:3		
4	SP, SM						
5					B-46:5		
6	MI	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.6			
7							
8			100				
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-46:10		End of Borehole

NOTES: Fill 0–2.5' bgs



BORING ID: B-47

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-47:0.5		
1	ML						
2	SP-SM	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					
4				0.0	B-47:4.5		
5							
6	ML						
7							
8			100				
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-47:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-48

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
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					
1				0.0	B-48:1		
2	ML		60				
3				0.0	B-48:3		
4							
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-48:5		
6	ML						
7					B-48:7		
8		SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	90	0.0			
9	ML						
10				0.0	B-48:10		End of Borehole

NOTES: Fill 0-5' bgs



BORING ID: B-49

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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					
1				0.0	B-49:1		
2	ML		60				
3					B-49:3		
4							
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					
7	ML		70	0.0	B-49:7		
8							
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-49:10		End of Borehole

NOTES: Fill 0-5' bgs



BORING ID: B-50

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-50:0.5		
1	ML						
2			80		B-50:2.5		
3		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-50:3.5		
4	SP, SM						
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-50:5		
6							
7	ML		100				
8							
9				0.0			
10	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-50:10		
End of Borehole							End of Borehole

NOTES: Fill 0-3' bgs



BORING ID: B-51

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL:
Not measured

DECOMMISSIONING MATERIAL:
Hydrated bentonite

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs

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-51:0.5		
1							
2	ML		60		B-51:2		
3							
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				0.0	B-51:7		
8	ML		80				
9							
10		End of Borehole		0.0	B-51:10		End of Borehole

NOTES: Fill 0-5' bgs



BORING ID: B-52

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-52:0.5		
1							
2	ML		60		B-52:2		
3							
4	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-52:4		
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
6				0.0	B-52:6		
7	ML		100				
8							
9	ML	SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
10		End of Borehole		0.0	B-52:10		End of Borehole

NOTES: Fill 0-4' bgs



BORING ID: B-53

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/28/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
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-53:0.5		
1	ML						
2			50		B-53:2.5		
3		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-53:3.5		
4	SP, SM						
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-53:5.5		
6							
7	ML		80				
8							
9							
10		End of Borehole		0.0	B-53:10		End of Borehole

NOTES: Fill 0-3' bgs



BORING ID: B-54

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	70	0.0	B-54:0.5		
1							
2							
3	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	70	0.0	B-54:2.5		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; low dilatency; no odor	100	0.0	B-54:4		
6							
7							
8							
9							
10	End of Borehole						End of Borehole

NOTES: Fill 0–3.5' bgs



BORING ID: B-55

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	80	0.0	B-55:0.5		
1							
2	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	80		B-55:2		
3				0.0	B-55:3		
4							
5	ML	SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency	100	0.0	B-55:5		
6							
7							
8							
9							
10		End of Borehole		0.0	B-55:10		End of Borehole

NOTES: Fill 0–2.5' bgs



BORING ID: B-56

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-56:0.5		
1	ML						
2		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor	90		B-56:2		
3	SP, SM			0.0	B-56:3		
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor					
5				0.0	B-56:5		
6	ML						
7							
8		SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor	100	0.0			
9	ML						
10		End of Borehole		0.0	B-56:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-57

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor; fill	60	0.0	B-57:0.5		
1							
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	60	0.0	B-57:3.5		
5	ML						
6			100				
7							
8	ML	SANDY SILT; light reddish brown; very stiff; medium plasticity; slow dilatency; no odor	100	0.0			
9							
10		End of Borehole		0.0	B-57:10		End of Borehole

NOTES: Fill 0-1.8' bgs



BORING ID: B-58

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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	ML	SANDY SILT WITH GRAVEL; grayish brown; damp; medium stiff; no odor	60	0.0	B-58:0			
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor			B-58:1			
2	SP-SM		100	0.0				
3					B-58:3			
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor						
5			100	0.0				
6	ML							
7								
8		SANDY SILT; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor						
9	ML		100	0.0				
10					B-58:10			
End of Borehole							End of Borehole	

NOTES: Fill 0-0.5' bgs



BORING ID: B-59

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH:
10' bgs
 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-59:0.5		
1	ML				B-50:1.5		
2	SP, SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor			B-59:2.5		
3	GP	POORLY-GRADED GRAVEL WITH SAND; dark reddish brown; damp; loose; no odor	60	0.0			
4		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0			
5				0.0	B-59:5		
6	ML						
7							
8			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-59:10		End of Borehole

NOTES: Fill 0-2' bgs



BORING ID: B-60

SITE ADDRESS
413 Rockefeller Ave, Everett, WA

CLIENT:
Haack Brothers

DRILLING CONTRACTOR:
Cascade

PROJECT #:
424198

DRILLING EQUIPMENT:
7822 Track Rig

DATE:
1/29/2021

DRILLING METHOD:
Direct Push Technology

GROUND SURFACE ELEV. FT AMSL: **Not measured**
 DECOMMISSIONING MATERIAL: **Hydrated bentonite**

LOGGED BY:
W. Weisberg

TOTAL DEPTH: **10' bgs**
 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-60:0.5		
1	ML						
2			100		B-60:2		
3	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; grayish brown; damp; medium stiff; no odor		0.0	B-60:3		
4							
5		SILT WITH SAND; light reddish brown; damp; very stiff; medium plasticity; slow dilatency; no odor		0.0	B-60:5		
6	ML						
7			100				
8							
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-60:10		End of Borehole

NOTES: Fill 0-3' bgs

Attachment G
Disposal Weight Tickets

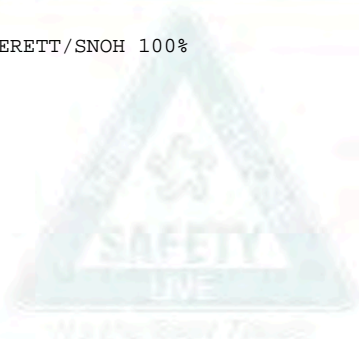
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001414
WEIGHMASTER Karyn B.	
DATE/TIME IN 11/8/21 8:44 am	DATE/TIME OUT 11/8/21 10:14 am
VEHICLE R85 R TRANSPORT	CONTAINER
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 95,640 NET TONS 27.88 INBOUND
 Scale Out TARE WEIGHT 39,880 NET WEIGHT 55,760 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.88	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

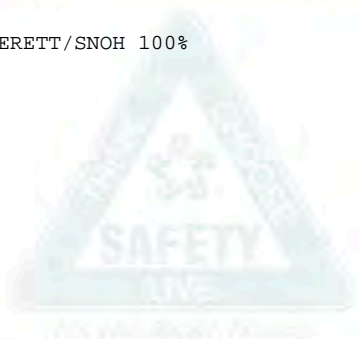
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001419	CELL
WEIGHMASTER Timothy T.		
DATE/TIME IN 11/8/21 10:29 am	DATE/TIME OUT 11/8/21 11:13 am	
VEHICLE R 82	CONTAINER	
REFERENCE		
BILL OF LADING		

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 92,360 NET TONS 24.54 INBOUND
 Scale Out TARE WEIGHT 43,280 NET WEIGHT 49,080 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.54	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



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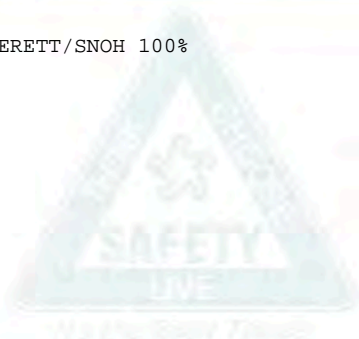
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001425		
WEIGHMASTER	Timothy T.		
DATE/TIME IN	11/8/21 12:25 pm	DATE/TIME OUT	11/8/21 12:25 pm
VEHICLE	R 82	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 94,020 NET TONS 25.37 INBOUND
 Tare Out TARE WEIGHT 43,280 NET WEIGHT 50,740 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
25.37	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

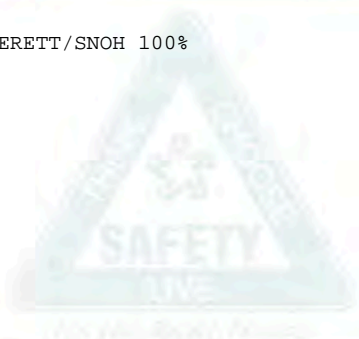
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001428	CELL	
WEIGHMASTER	Timothy T.		
DATE/TIME IN	11/8/21 1:27 pm	DATE/TIME OUT	11/8/21 1:27 pm
VEHICLE	R 82	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 98,700 NET TONS 27.71 INBOUND
 Tare Out TARE WEIGHT 43,280 NET WEIGHT 55,420 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.71	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

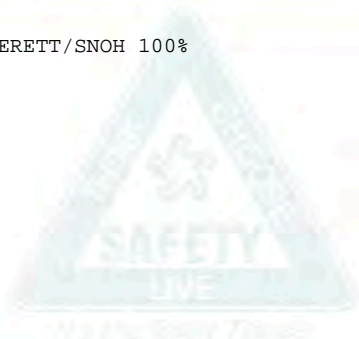
01 1001431

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

WEIGHMASTER Timothy T.	
DATE/TIME IN 11/8/21 2:59 pm	DATE/TIME OUT 11/8/21 2:59 pm
VEHICLE R85 R TRANSPORT	CONTAINER
REFERENCE	
BILL OF LADING	

Scale In GROSS WEIGHT 94,980 NET TONS 27.55 INBOUND
 Tare Out TARE WEIGHT 39,880 NET WEIGHT 55,100 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.55	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

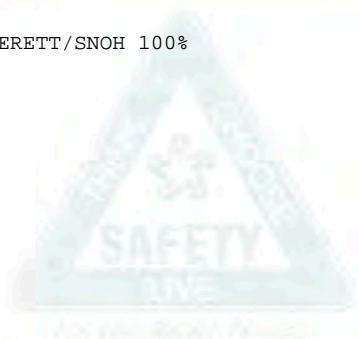
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

SOI	TICKET # 1001443	CELL
WEIGHMASTER Karyn B.		
DATE/TIME IN 11/9/21 8:47 am	DATE/TIME OUT 11/9/21 9:04 am	
VEHICLE R85 R TRANSPORT	CONTAINER	
REFERENCE		
BILL OF LADING		

Scale In GROSS WEIGHT 97,900 NET TONS 28.99 INBOUND
 Scale Out TARE WEIGHT 39,920 NET WEIGHT 57,980 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.99	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

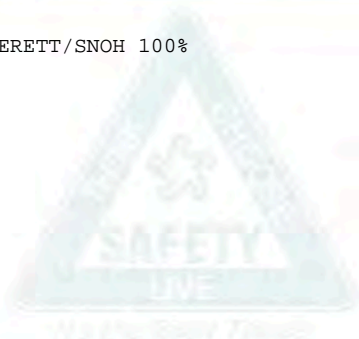
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001445
WEIGHMASTER Karyn B.	
DATE/TIME IN 11/9/21 9:00 am	DATE/TIME OUT 11/9/21 9:25 am
VEHICLE R82 R TRANSPORT	CONTAINER
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 99,340 NET TONS 28.15 INBOUND
 Scale Out TARE WEIGHT 43,040 NET WEIGHT 56,300 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.15	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

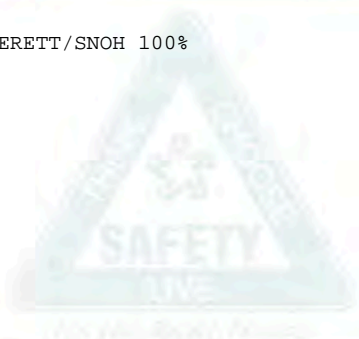
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001456	CELL
WEIGHMASTER Timothy T.		
DATE/TIME IN 11/9/21 11:08 am	DATE/TIME OUT 11/9/21 11:08 am	
VEHICLE R85 R TRANSPORT	CONTAINER	
REFERENCE		
BILL OF LADING		

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 97,060 NET TONS 28.57 INBOUND
 Tare Out TARE WEIGHT 39,920 NET WEIGHT 57,140 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.57	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

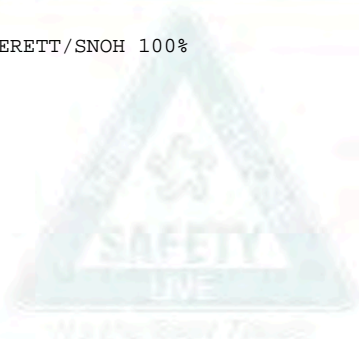
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001458
WEIGHMASTER	Timothy T.
DATE/TIME IN	11/9/21 11:31 am
DATE/TIME OUT	11/9/21 11:50 am
VEHICLE	R 82
CONTAINER	
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 100,720 NET TONS 28.93 INBOUND
 Scale Out TARE WEIGHT 42,860 NET WEIGHT 57,860 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.93	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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 CHECK :

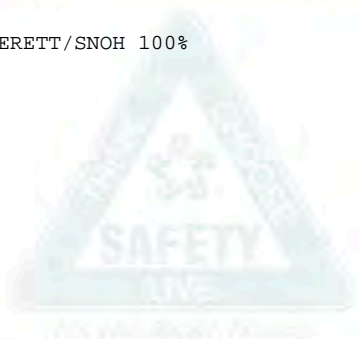
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001474	CELL
WEIGHMASTER	Karyn B.	
DATE/TIME IN	11/9/21 1:29 pm	DATE/TIME OUT
DATE/TIME OUT	11/9/21 1:29 pm	
VEHICLE	R85 R TRANSPORT	CONTAINER
REFERENCE		
BILL OF LADING		

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 96,400 NET TONS 28.24 INBOUND
 Tare Out TARE WEIGHT 39,920 NET WEIGHT 56,480 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.24	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____
 CHECK :

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

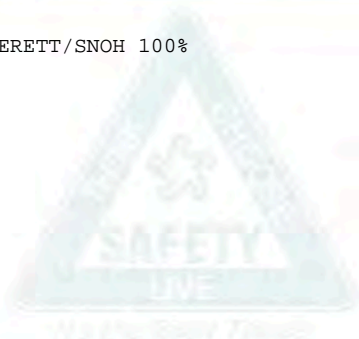
01 1001482

WEIGHMASTER		Karyn B.	
DATE/TIME IN	11/10/21 6:33 am	DATE/TIME OUT	11/10/21 6:59 am
VEHICLE	R 82	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 102,120 NET TONS 29.36 INBOUND
 Scale Out TARE WEIGHT 43,400 NET WEIGHT 58,720 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.36	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

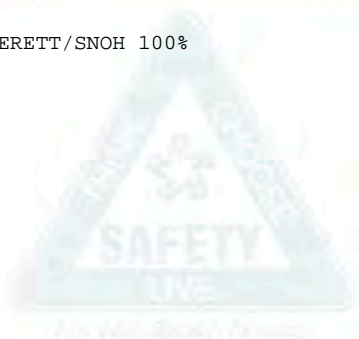
01 1001492

SOI	TICKET #	1001492	CELL
WEIGHMASTER		Timothy T.	
DATE/TIME IN	11/10/21 12:39 pm	DATE/TIME OUT	11/10/21 12:59 pm
VEHICLE	R87 R TRANSPORT	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 97,820 NET TONS 29.20 INBOUND
 Scale Out TARE WEIGHT 39,420 NET WEIGHT 58,400 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.20	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

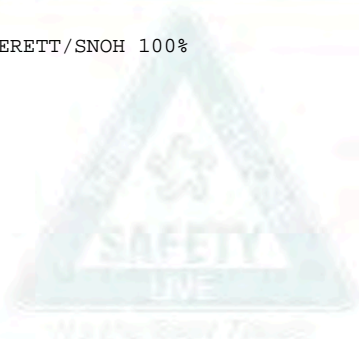
01 1001494

WEIGHMASTER		IN - Timothy T. OUT - Karyn B.	
DATE/TIME IN		DATE/TIME OUT	
11/10/21 1:11 pm		11/10/21 1:35 pm	
VEHICLE	CONTAINER		
R85 R TRANSPORT			
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 98,180 NET TONS 29.23 INBOUND
 Scale Out TARE WEIGHT 39,720 NET WEIGHT 58,460 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.23	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

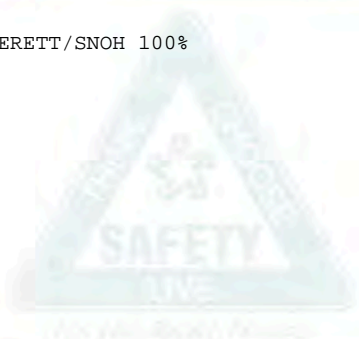
01 1001495

SOI	TICKET #	1001495	CELL
WEIGHMASTER		IN - Timothy T. OUT - Karyn B.	
DATE/TIME IN		DATE/TIME OUT	
11/10/21 1:15 pm		11/10/21 2:00 pm	
VEHICLE	CONTAINER		
R 78 R			
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 102,180 NET TONS 29.59 INBOUND
 Scale Out TARE WEIGHT 43,000 NET WEIGHT 59,180 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.59	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

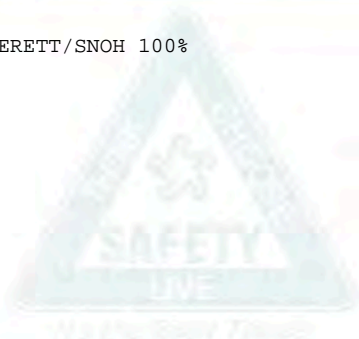
01 1001510

WEIGHMASTER		Karyn B.	
DATE/TIME IN	11/11/21 8:23 am	DATE/TIME OUT	11/11/21 8:36 am
VEHICLE	R87 R TRANSPORT	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 94,240 NET TONS 27.30 INBOUND
 Scale Out TARE WEIGHT 39,640 NET WEIGHT 54,600 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.30	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
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CHANGE
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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

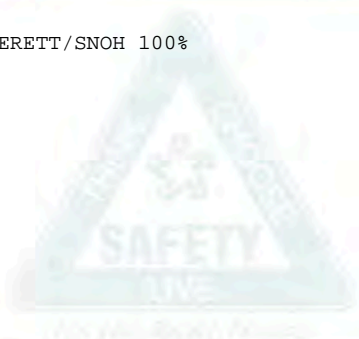
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET #	1001512	CELL
WEIGHMASTER		Karyn B.	
DATE/TIME IN	11/11/21 8:32 am	DATE/TIME OUT	11/11/21 8:45 am
VEHICLE	R85 R TRANSPORT	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 98,040 NET TONS 29.08 INBOUND
 Scale Out TARE WEIGHT 39,880 NET WEIGHT 58,160 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.08	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

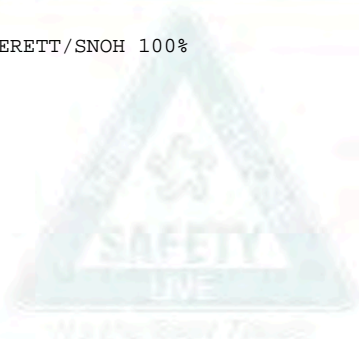
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001514
WEIGHMASTER Karyn B.	
DATE/TIME IN 11/11/21 8:40 am	DATE/TIME OUT 11/11/21 8:56 am
VEHICLE R82 R TRANSPORT	CONTAINER
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 103,440 NET TONS 30.06 INBOUND
 Scale Out TARE WEIGHT 43,320 NET WEIGHT 60,120 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.06	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

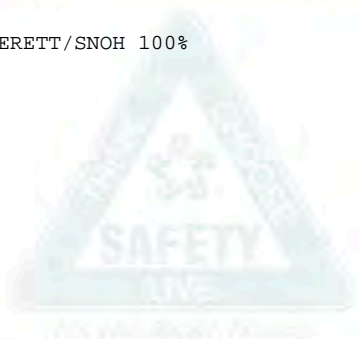
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001519	CELL
WEIGHMASTER Timothy T.		
DATE/TIME IN 11/11/21 10:26 am	DATE/TIME OUT 11/11/21 11:08 am	
VEHICLE R 78 R	CONTAINER	
REFERENCE		
BILL OF LADING		

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 96,700 NET TONS 28.58 INBOUND
 Scale Out TARE WEIGHT 39,540 NET WEIGHT 57,160 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.58	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

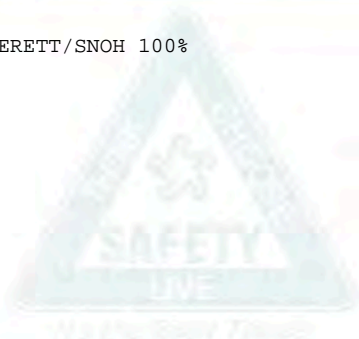
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	1001522
WEIGHMASTER IN - Timothy T. OUT - Karyn B.	
DATE/TIME IN	DATE/TIME OUT
11/11/21 11:12 am	11/11/21 11:25 am
VEHICLE	CONTAINER
R 82	
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 104,580 NET TONS 30.83 INBOUND
 Scale Out TARE WEIGHT 42,920 NET WEIGHT 61,660 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.83	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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 CHECK :

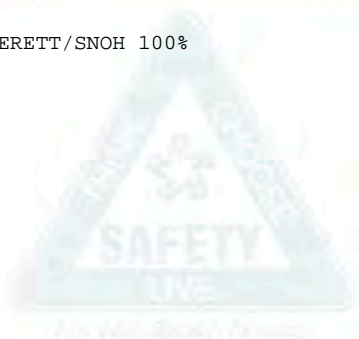
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

01	TICKET # 1001521	CELL
WEIGHMASTER Timothy T.		
DATE/TIME IN	DATE/TIME OUT	
11/11/21 11:14 am	11/11/21 11:14 am	
VEHICLE	CONTAINER	
R85 R TRANSPORT		
REFERENCE		
BILL OF LADING		

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 97,100 NET TONS 28.61 INBOUND
 Tare Out TARE WEIGHT 39,880 NET WEIGHT 57,220 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.61	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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 CHECK :

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

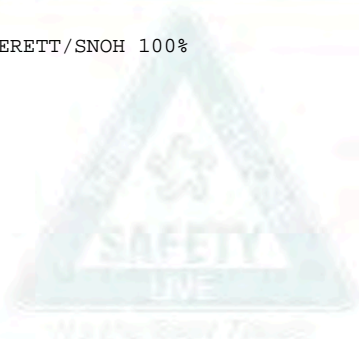
01 1001527

WEIGHMASTER Timothy T.	
DATE/TIME IN 11/11/21 1:15 pm	DATE/TIME OUT 11/11/21 1:15 pm
VEHICLE R87 R TRANSPORT	CONTAINER
REFERENCE	
BILL OF LADING	

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 98,040 NET TONS 29.20 INBOUND
 Tare Out TARE WEIGHT 39,640 NET WEIGHT 58,400 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.20	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

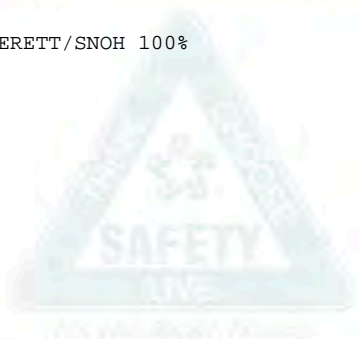
REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

SOI	TICKET # 1001528	CELL
WEIGHMASTER Timothy T.		
DATE/TIME IN 11/11/21 1:35 pm	DATE/TIME OUT 11/11/21 1:35 pm	
VEHICLE R82 R TRANSPORT	CONTAINER	
REFERENCE		
BILL OF LADING		

Scale In GROSS WEIGHT 103,980 NET TONS 30.33 INBOUND
 Tare Out TARE WEIGHT 43,320 NET WEIGHT 60,660 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.33	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

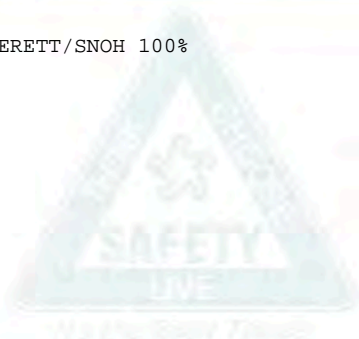
01 1001535

WEIGHMASTER		Amanda C.	
DATE/TIME IN	11/10/21 7:30 am	DATE/TIME OUT	11/10/21 7:30 am
VEHICLE	R85 R TRANSPORT	CONTAINER	
REFERENCE	BT280518		
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Manual In GROSS WEIGHT 98,940 NET TONS 29.53 INBOUND
 Manual Out TARE WEIGHT 39,880 NET WEIGHT 59,060 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.53	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____
 CHECK :

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

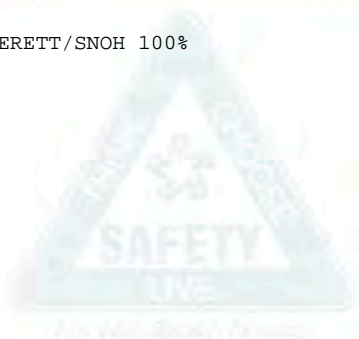
01 1001536

SOI	TICKET #	1001536	CELL
WEIGHMASTER		Amanda C.	
DATE/TIME IN	11/10/21 7:33 am	DATE/TIME OUT	11/10/21 7:33 am
VEHICLE	R87 R TRANSPORT	CONTAINER	
REFERENCE	BT280520		
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Manual In GROSS WEIGHT 96,900 NET TONS 28.45 INBOUND
 Manual Out TARE WEIGHT 40,000 NET WEIGHT 56,900 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.45	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____
 CHECK :

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

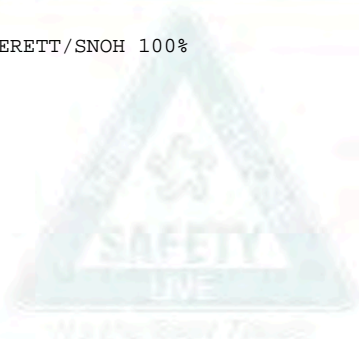
01 1001537

WEIGHMASTER		Amanda C.	
DATE/TIME IN		11/10/21 7:35 am	DATE/TIME OUT
VEHICLE		R82 R TRANSPORT	CONTAINER
REFERENCE			
BT280521			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Manual In GROSS WEIGHT 104,980 NET TONS 30.79 INBOUND
 Manual Out TARE WEIGHT 43,400 NET WEIGHT 61,580 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.79	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____ CHANGE: _____ CHECK: _____

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

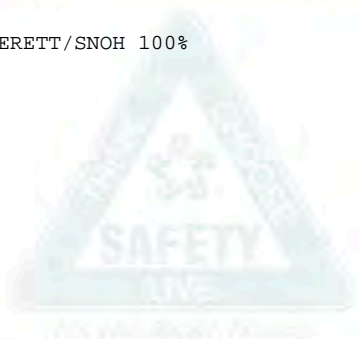
01 1001538

WEIGHMASTER		Amanda C.	
DATE/TIME IN		11/10/21 7:40 am	DATE/TIME OUT
VEHICLE		R 78 R	CONTAINER
REFERENCE			
BT280515			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Manual In GROSS WEIGHT 101,000 NET TONS 28.84 INBOUND
 Manual Out TARE WEIGHT 43,320 NET WEIGHT 57,680 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.84	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

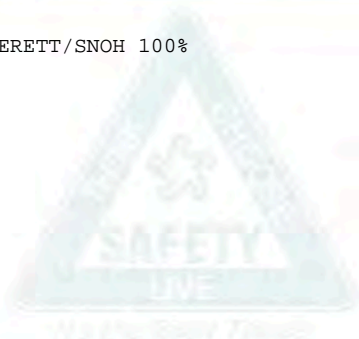
01 1001541

WEIGHMASTER		Karyn B.	
DATE/TIME IN	11/12/21 8:40 am	DATE/TIME OUT	11/12/21 8:54 am
VEHICLE	R87 R TRANSPORT	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 93,340 NET TONS 26.81 INBOUND
 Scale Out TARE WEIGHT 39,720 NET WEIGHT 53,620 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
26.81	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK :

REGIONAL DISPOSAL INTERMODAL 425-977-4127
 3rd and lander Seattle, WA

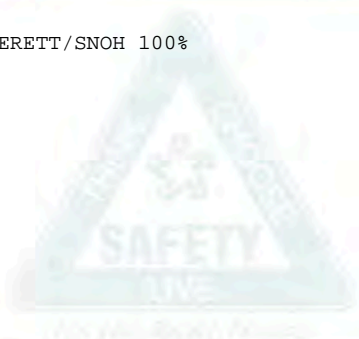
01 1001551

SOI	TICKET #	1001551	CELL
WEIGHMASTER		Timothy T.	
DATE/TIME IN	11/12/21 11:06 am	DATE/TIME OUT	11/12/21 11:06 am
VEHICLE	R87 R TRANSPORT	CONTAINER	
REFERENCE			
BILL OF LADING			

CUSTOMER
 010249 - Glacier Environmental Services,
 Inc
 PO Box 1097
 Mukilteo, WA 98275
 Contract:MC-19365

Scale In GROSS WEIGHT 95,640 NET TONS 27.96 INBOUND
 Tare Out TARE WEIGHT 39,720 NET WEIGHT 55,920 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.96	tn	SW-CONT SOIL Origin:EVERETT/SNOH 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____ CHANGE: _____
 CHECK :