INTERIM REMEDIAL ACTION COMPLETION REPORT

YAKIMA VALLEY TRANSPORTATION CO. TROLLEY BARN SITE 404 SOUTH 3rd AVENUE YAKIMA, WASHINGTON



Prepared for

CITY OF YAKIMA

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The material and data in this report were prepared under the supervision and direction of the undersigned.

MAUL FOSTER & ALONGI, INC.

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CONTENTS

TAB	BLES AND ILLUSTRATIONS	IV							
ACI	RONYMS AND ABBREVIATIONS	V							
1	INTRODUCTION								
2	BACKGROUND 2.1 SITE LOCATION 2.2 SITE HISTORY 2.3 ENVIRONMENTAL CONDITIONS								
3	PRE-EXCAVATION SOIL CHARACTERIZATION								
4	EXCAVATION OF CONTAMINATED SOIL 4.1 SITE PREPARATION AND LAYOUT 4.2 EXCAVATION 4.3 BACKFILL 4.4 INVESTIGATION-DERIVED WASTE DISPOSAL 4.5 AS-BUILT	4 4 4 7 8 8							
5	IN SITU BIOREMEDIATION/ENHANCED AEROBIC BIODEGRADATION 5.1 ANOXEA® TREATMENT								
6	GRAVEL CAP								
7	DECOMMISSIONING OF UNNAMED UST								
8	FINAL INSPECTION	9							
LIMI	IITATIONS								
REF	FERENCES								
TAB	BLES								
FIGI	URES								
APF	PENDIX A LABORATORY REPORTS AND DATA VALIDATION MEMORANDUM								
APF	PENDIX B PHOTOGRAPHS								
APF	PENDIX C DISPOSAL RECORDS								
APF	PENDIX D X-RAY FLUORESCENCE DATA								
APF	PENDIX E AS-BUILT SURVEY								
APF	PENDIX F PRELIMINARY SOURCE EVALUATION AND CLEAN SOIL STATEMENT								
APF	PENDIX G								

DRUM ANALYTICAL DATA

TABLES AND ILLUSTRATIONS

FOLLOWING REPORT:

TABLES

- 1 CONFIRMATION SAMPLE ANALYTICAL RESULTS
- 2 STOCKPILE AND WELL ANALYTICAL RESULTS

FIGURES

- 1 SITE LOCATION
- 2 SITE FEATURES AND AREAS OF INTEREST
- 3 MFA SOIL SAMPLE LOCATIONS
- 4 XRF ANALYSIS LOCATIONS
- 5 SOIL CAP LOCATIONS

ACRONYMS AND ABBREVIATIONS

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

the City City of Yakima, Washington

COC chemical of concern

CUL cleanup level

Ecology Washington State Department of Ecology

ESA environmental site assessment HCID Hydrocarbon Identification

IO Environmental and Infrastructure, Inc.

MFA Maul Foster & Alongi, Inc. MTCA Model Toxics Control Act

NWTPH Northwest Total Petroleum Hydrocarbons

PCS petroleum-contaminated soil PID photoionization detector

the Property 404 South 3rd Avenue, Yakima, WA

SAP sampling and analysis plan

the Site Ecology Facility Site No. 9688850, Cleanup Site No.

2190

TCLP toxicity characteristic leaching procedure

TPH total petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

USPCI U.S. Pollution Control, Inc.
UST underground storage tank
VOC volatile organic compound

YVT Yakima Valley Transportation Company

XRF X-ray fluorescence

1 INTRODUCTION

On behalf of the City of Yakima, Washington (the City), Maul Foster & Alongi, Inc. (MFA) has prepared this report describing the interim remedial action conducted at the Yakima Valley Transportation Co. Trolley Barn site located at 404 South 3rd Avenue, Yakima, Washington (the Property). The Property includes a confirmed contaminated site, Washington State Department of Ecology (Ecology) Facility Site No. 9688850, Cleanup Site No. 2190 (the Site). The interim action was funded through an interagency agreement executed between Ecology and the City.

From June 1 to June 12, 2015, with oversight from MFA and Ecology staff, IO Environmental and Infrastructure, Inc. (IO) of Redmond, Washington performed soil excavation, residual contaminant capping, and associated tasks supporting environmental remediation of the Site.

2 BACKGROUND

2.1 Site Location

The physical address for the portion of the Site subject to the interim cleanup action is 404 South 3rd Avenue in Yakima, Washington, as shown in Figure 1. The Property, a 1.58-acre parcel (tax assessor parcel number 181324-44465) owned by the City of Yakima, is on the southwest corner of the intersection of West Pine Street and South 3rd Avenue, as shown in Figure 2. The adjacent property, a parking lot owned by the Central Washington Comprehensive Mental Health, is also part of the Site, although was not a part of the June 2015 interim remedial action. The Property is zoned Light Industrial District (M-1) and is located in section 24 of township 13 north and range 18 east of the Willamette Meridian.

2.2 Site History

The Yakima Valley Transportation Company (YVT) constructed, owned, and operated electric trains on the Property from 1907 until 1909, when YVT was purchased by the Union Pacific Railroad. The Union Pacific Railroad expanded the rail system as a feeder of freight operations until 1985. Soon after that, the City purchased the Property (Yakima Valley Trolleys, 2015). Volunteers of a non-profit, Yakima Valley Trolleys, maintain and continue operations of the electric trains on behalf of the City.

The Property is primarily used to house and maintain trolleys supporting Yakima Valley Trolleys' operation of the Yakima Electric Railway Museum, which is also located inside the Substation Building on the Property. There are currently three buildings on the Property, the Trolley Barn, the Substation Building, and a small stone shed. Formerly, another trolley barn, a coal bin, an above

ground storage tank and stock shed existed along the boundary between the two properties of the Site (see Figure 2). There were, at one time, at least three underground storage tanks (USTs) on the Site; U.S. Pollution Control, Inc. (USPCI) reported closure (via removal) of the USTs in 1990, and indicated evidence of leaking from at least two of the tanks (USPCI, 1990). The "Former UST Basin" shown in Figure 2 refers to the area surrounding what is referred to in the Trolley Barn UST Closure Site Assessment Report as Tank No. 6 (USPCI, 1990).

Site investigations began in 1991 during a property transfer evaluation, and were conducted again in 1993 during geotechnical investigations, and in 1996 during a Phase I environmental site assessment (ESA) at a property to the west of and adjacent to the Property (Shannon & Wilson, 1996). Two Phase II ESAs have since been conducted, the first in 1996 for the property adjacent to the Property to the west and the second in 2007 at the Site.

Ecology led soil and groundwater investigations conducted by GeoEngineers under the Eastern Washington Clean Sites Initiative. Soil sampling and monitoring well installation occurred in August 2014 (GeoEngineers, 2015). Ecology, with the assistance of GeoEngineers, analyzed shallow soil samples collected from throughout the Property in March 2015 for heavy metals, primarily lead and arsenic.

The City entered into an interagency agreement with Ecology in April 2015 to conduct an interim remedial action that occurred in June 2015 and is documented in this report.

2.3 Environmental Conditions

Historical subsurface investigations and remedial investigations conducted between 1990 and 2015 identified the following chemicals of concern (COCs) in soil and groundwater at the Site:

- Carcinogenic polycyclic aromatic hydrocarbons
- Diesel-range total petroleum hydrocarbons (TPH)
- Gasoline-range TPH
- Heavy Oil-range TPH
- Volatile organic compounds (VOCs): benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Heavy metals: arsenic, lead, mercury, cadmium, and chromium
- Polychlorinated biphenyls

An interim remedial action was designed to address these COC exceedances in soil, as well as potential groundwater contamination sources in the vicinity of the Former UST Basin.

3 PRE-EXCAVATION SOIL CHARACTERIZATION

Based on prior investigation findings, three areas were identified by Ecology for completion of the interim remedial action. These areas are identified as the "Surface Soil Removal Area," the "Heavy Metals Excavation Area," and the "Former UST Basin," as shown on Figure 2. The northeast and southeast corners of the Property were also designated as potential surface soil excavation areas, as directed by Ecology staff during initiation of the interim remedial action. Of these two potential excavation areas, only the northern portion of the Property, which is identified as "Additional Surface Soil Removal Area" in Figure 2, was also excavated under the interim remedial action to accommodate the gravel cap not exceeding the height of the adjacent rail tracks.

Five-point composite soil samples were collected prior to the interim remedial action to characterize the surface soil excavation areas (excavations 6 inches deep or less) for appropriate disposal. Discrete soil samples were also collected from a test pit excavated in the Former UST Basin to characterize the soil at different depths. Figure 3 identifies the collection locations of each characterization sample and the test pit, as well as confirmation sample collection locations described in further detail in Section 4.2. The soil samples were collected in accordance with the sampling and analysis plan (SAP) (MFA, 2015b), and analyzed by Friedman & Bruya, Inc. of Seattle, Washington by the toxicity characteristic leaching procedure (TCLP) extraction method (U.S. Environmental Protection Agency [USEPA] Method 1311) for lead, arsenic and, in some areas, mercury, depending on the historical presence of COCs. Appendix A contains the soil characterization laboratory reports and the associated data validation memorandum. Table 1 summarizes the soil characterization sample analytical results. All analytical results by TCLP for the COC metals indicate the soils met criteria for disposal at a limited purpose landfill, with exception to one sample collected from the southern-most portion of the Heavy Metals Excavation Area.

The Heavy Metals Excavation Area was divided into two subareas, and a 5-point composite sample was collected from each subarea and analyzed for TCLP-arsenic, -lead, and -mercury (designated as soil samples S-01 and S-02). Analytical results associated with soil sample S-01 exceeded the TCLP-lead regulatory criteria of 5 milligrams per liter, which required its designation as hazardous material, consistent with Title 40 Code of Federal Regulations Part 261.24.

The Surface Soil Removal Area was divided into four subareas, and a 5-point composite sample was collected from each subarea and analyzed for TCLP-arsenic and -lead (samples S-03 through S-06). Analytical results for all characterization soil samples collected from the Surface Soil Removal Area indicated metals TCLP concentrations below associated regulatory criteria for designation as hazardous material.

Prior to initiating remedial action activities in the Former UST Basin, a test pit was excavated and discrete soil samples were collected at various depths. The test pit was located approximately 57 feet south-southeast of the center of the railroad tracks on Pine Street and 34 feet north-northeast of the east face of the Trolley Barn, as directed by Ecology and historical maps (USPCI, 1990). Soil samples were collected from the test pit at depths of 0.5 feet, 3 feet, 5 feet, 7 feet, 9 feet, 11 feet, and

13 feet below ground surface (bgs). Photoionization detector (PID) readings ranged from 0.7 to 189 parts per million. Each sample (samples SP-1-S-6" through SP-1-S-13") was analyzed for TCLP-arsenic and -lead, BTEX, and for gasoline-range and diesel-range TPH by Northwest Total Petroleum Hydrocarbons (NWTPH)-Gx, and NWTPH-Dx, respectively. All analytical results indicated COC concentrations were below the associated reporting limits.

One 5-point composite sample (S-07) was collected from the Additional Surface Soil Removal Area prior to initiating excavation in this area and analyzed for TCLP-arsenic and -lead. The analytical results associated with sample S-07 indicated metals TCLP concentrations below associated regulatory criteria for designation as hazardous material.

Another 5-point composite sample (S-08) was collected at the request of Ecology from an area immediately east of the Substation Building and analyzed for TCLP-arsenic and —lead (see Figure 3). The analytical results associated with sample S-08 indicated metals TCLP concentrations below associated regulatory criteria for designation as hazardous material. No further action associated with the interim remedial action was conducted in this area.

4 EXCAVATION OF CONTAMINATED SOIL

The interim remedial action included excavation of soils exceeding Model Toxics Control Act (MTCA) Method A cleanup levels (CULs), application of an in situ chemical oxidation and aerobic biodegradation enhancement compound in the Former UST Basin excavation, backfilling all excavations, and transporting the contaminated material off site for disposal. Prior to initiating excavation in an area, soil disposal from that specific area was coordinated with and approved by the Yakima Health Department based on the analytical results of the characterization samples described in Section 3. Photographs showing contaminated-material excavation, in situ treatment compound application, and backfilling activities are presented in Appendix B.

4.1 Site Preparation and Layout

Before any excavation activities occurred, silt fence was installed along the downgradient perimeter of planned excavation areas, where stormwater runoff had the potential to migrate off site. Straw wattles were installed to protect curb-opening storm inlets from sediment and debris. The general excavation limits were laid out by the contractor and approved by the engineer. Underground utilities at the Site were identified by a private utility locating company. A dust-control plan and a material safety data sheet for the in situ bioremediation product were also submitted to and approved by the Yakima Regional Clean Air Agency prior to initiating remedial action activities.

4.2 Excavation

As discussed in Section 3, separate areas were identified for remediation under the interim remedial action. The following subsections describe excavation activities specific to each of the areas.

4.2.1 Hazardous Material Excavation

The material in the Heavy Metals Excavation Area represented by characterization soil sample S-01 was designated as the "Hazardous Heavy Metals Area" and excavated to 1 foot bgs. All material originating from the area (approximately 110 tons) was transported in lined and covered trucks to and disposed of at the Chemical Waste Management of the Northwest Landfill in Arlington, Oregon, a Resource Conservation and Recovery Act Subtitle C permitted landfill. Copies of the hazardous-waste manifests are included in Appendix C. Field staff and contractors working in the Hazardous Heavy Metals Area wore particulate filter masks and Tyvek suits throughout excavation of this area. Due to haul truck access constraints, soil was transported using a loader from the Hazardous Heavy Metals Area to the Surface Soil Removal Area where it was stockpiled on plastic sheeting until loaded for off site transport and disposal.

Three confirmation soil samples (samples S-09 through S-11) were collected from the base of the Hazardous Heavy Metals Area excavation (see Figure 3). Samples were analyzed for the following:

- Lead by USEPA Method 6010B
- Arsenic by USEPA Method 6010B
- Cadmium by USEPA Method 6010B

Analytical results indicated that confirmation sample S-10 exceeded the associated MTCA Method A CUL for arsenic, and sample S-11 exceeded the CUL for lead. Table 2 presents the analytical results associated with the confirmation soil samples. In addition to collection of the three confirmation soil samples, Ecology staff conducted field screening of the excavation base with an X-ray fluorescence (XRF) instrument. XRF data are included in Appendix D. Figure 4 presents XRF analysis locations.

During excavation, a 10-gallon bucket was uncovered below the area. The bucket contained sawdust and appeared to house a water valve. The bucket and fixtures were left in place because they were below the excavation area. Yakima Valley Trolleys volunteers indicated that the valve may have been associated with utility connections installed during previous management. The excavation also uncovered a power line running under and across the excavation. The power was safely cut and tied off at the ends.

4.2.2 Non-Hazardous Material Excavation

Soil characterized for excavation that was not designated as a hazardous material was disposed of at the Anderson Landfill in Yakima, Washington. Approximately 465 tons were disposed of as petroleum-contaminated soil (PCS) in the PCS facility of the Anderson Landfill and approximately 1,123 tons were disposed of as non-PCS at the Anderson Limited Purpose Landfill. A copy of the truck disposal tickets is included in Appendix C.

4.2.2.1 Heavy Metals Excavation

The remainder of the Heavy Metals Excavation Area, characterized by sample S-02 and shown in Figure 3, was excavated to a depth of 6 inches. This area contained metals based upon previous

XRF field screening data collected by Ecology staff; however, analytical results associated with the sample did not exceed regulatory criteria for designation as hazardous material. Therefore, soil excavated from this portion of the Heavy Metal Excavation Area was disposed of at the Anderson Landfill in Yakima, Washington. No confirmation soil samples were collected from the base of the excavation; however, XRF data was collected by Ecology staff (Figure 4; Appendix D).

4.2.2.2 Surface Soil Removal Excavation

The top 6 inches of soil excavated from the Surface Soil Removal Area was directly loaded and transported to the Anderson Landfill in Yakima, Washington. No confirmation soil samples were collected from the base of the excavation; however, XRF data was collected by Ecology staff (Figure 4; Appendix D). Activities also included the removal of the concrete sidewalk along the eastern portion of the Site, which was taken to the Anderson Rock and Demolition Pits recycling facility in Yakima, Washington, to be recycled. Sidewalks outside the excavation bounds were saw cut.

4.2.2.3 Former UST Basin Excavation

Excavation associated with potential contaminant source removal in the Former UST Basin was extended to approximately 15 feet bgs, with the base of the excavation footprint ultimately being approximately 12 feet by 18 feet. The excavation boundary near the adjacent railroad tracks was sloped to protect the integrity of the tracks. The excavation also extended beyond an existing water service line, which was supported throughout excavation and backfilling activities.

The excavation was originally centered on the approximate location of the Former UST No. 6, as described in the 1990 UST closure report (USPCI, 1990). However, the excavation boundaries were shifted north upon identification of impacted soil in the northwest floor of the planned excavation area. Expansion of the excavation farther westward was limited by the slopes necessary to protect the tracks. The shift in excavation boundaries caused a reduction in the horizontal extent of the excavation to the east and resulted in the excavation area as shown on the as-built drawing provided in Appendix E.

PCS was identified during the excavation activities by field screening techniques for petroleum hydrocarbons and fuel-associated VOCs; screening methods included the following:

- Visual
- Olfactory
- PID

The atmosphere in the vicinity of the excavation was monitored with a PID to test for the presence of VOCs to determine the need for respiratory protection, in accordance with the health and safety plan (MFA, 2015a).

Characterization soil samples collected from the test pit installed prior to initiating excavation activities in the Former UST Basin indicated that PCS was nonhazardous. PCS was loaded directly into haul trucks and transported to Anderson's PCS facility in Yakima, Washington. Loose soil was

brushed off truck trailers before leaving the Site to prevent soil from falling off the truck during transit.

Approximately 75 cubic yards of soil from the western portion of the excavation area was deemed clean based on test pit soil sample analytical results and reused as backfill. The soil reused for backfill originated from depths ranging from 3 to 5 feet bgs.

Confirmation soil samples were collected from the floor and walls of the excavation (samples S-12 through S-19), as outlined in the SAP (MFA, 2015b). All confirmation samples were submitted to Friedman and Bruya, Inc., of Seattle, Washington, and were analyzed for the following:

- Petroleum hydrocarbons by NWTPH-Hydrocarbon Identification (HCID)
- Total metals: arsenic, lead, cadmium by USEPA Method 6020A

Confirmation samples were first analyzed for NWTPH-HCID to identify the presence of petroleum hydrocarbons and, if present, determine the range of the petroleum hydrocarbons for subsequent analysis. Based upon the NWTPH-HCID results, samples S-12, S-13, and S-15 were analyzed for diesel-range TPH by NWTPH-Dx. In addition, at the request of Ecology staff, confirmation samples S-12 through S-17 were analyzed for BTEX by USEPA Method 8021B. Table 2 summarizes laboratory analytical results for confirmation soil samples collected during the interim remedial action. Only one sample exceeded MTCA CULs for the analyses performed; sample S-15 exceeded MTCA CULs for diesel-range petroleum hydrocarbons. Figure 4 identifies the location of each confirmation soil sample.

4.2.2.4 Additional Surface Soil Removal Excavation

The top 2 inches of soil from the Additional Surface Soil Removal Area was scraped and directly hauled off site to the Anderson Landfill in Yakima, Washington. No confirmation soil samples were collected from the base of the excavation; however, XRF data was collected by Ecology staff (Figure 4; Appendix D). This included the removal of existing asphalt concrete north of the Trolley Barn; the concrete was taken to the Anderson Rock and Demolition Pits Recycling facility in Yakima, Washington.

4.3 Backfill

Following excavation and confirmation soil sample collection, a bioremediation compound was applied to the excavation base of the Former UST Basin (see Section 5 for more detail). The excavation was then backfilled with clean overburden and imported clean fill. Clean fill was imported from Anderson Rock and Demolition Pits in Yakima, Washington. A preliminary source evaluation and clean soil statement for import material that originated from the Anderson site are included in Appendix F.

Clean backfill was placed in the excavations and compacted in accordance with the project specifications. Excavations deeper than 6 inches were backfilled with 2-inch minus rock. The top 6 inches were backfilled with crushed surfacing base course, 1 ¹/₄-inch minus. The final grade was

placed to match the existing grade, except for the Surface Soil Removal Area, which was compacted to 2 inches below the existing grade in anticipation of planned paving in this area.

4.4 Investigation-derived Waste Disposal

Three pre-existing 50-gallon drums located on the Site were also disposed of at the Anderson Landfill in Yakima, Washington, at the direction of Ecology staff. Two were empty and one contained soil cuttings resulting from a previous boring; the analytical data associated with a soil sample collected from this boring (sample HWA-MW1-Composite) indicated that all COC concentrations were below MTCA Method A CULs (Appendix G).

4.5 As-Built

PLSA Engineering and Surveying of Yakima, Washington surveyed the excavation limits upon notification of completion by the contractor. Vertical excavation extents were continuously measured by the contractor and were as noted in the above sections. The lateral extents of the excavation were recorded for the as-built drawing. The final as-built drawing is included as Appendix E.

5 IN SITU BIOREMEDIATION/ENHANCED AEROBIC BIODEGRADATION

5.1 AnoxEA® Treatment

In situ bioremediation included application of a Bioremediation Specialties product called AnoxEA, an electron acceptor amendment used to oxidize and provide nutrient sources for the bacterial degradation of hydrocarbons. AnoxEA was received from the manufacturer in dry powder form, which was applied directly at the manufacturer's recommended rate on the base of excavation in the Former UST Basin. The product was lightly sprayed with water after it was applied for dust control purposes.

6 GRAVEL CAP

The entire Property was capped with 2 to 6 inches of gravel; the only exceptions being in the thin strip east of the Trolley Barn, below immovable equipment, between rails or thin strips between rails, and east of the Substation Building (see Figure 5). The gravel used was a crushed surfacing base course, 1 ¹/₄-inch minus; documentation that it was from a clean source is included in Appendix F. A Site Management Plan will be detailing operation and maintenance measures associated with the preservation of the cap, and an environmental covenant will be recorded against to two parcels upon

which the Site is located, prohibiting disturbance of the gravel cap, existing buildings, and current or future paving on the Property, unless approved by Ecology.

7 DECOMMISSIONING OF UNNAMED UST

An unnamed UST located in the Substation Building, believed by Yakima Valley Trolleys staff to have historically contained transformer oil, heating oil, or waste oil, was identified for decommissioning in-place during interim remedial action design. The exact size of the tank is also unknown. However, the UST in the Substation Building was deemed inaccessible during field activities, and therefore, was not decommissioned.

8 FINAL INSPECTION

The final inspection of the interim remedial action was completed on June 12, 2015. No unresolved issues or work items remained at that time.

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

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TABLES



Sample Name	MTCA	USEPA TCLP	S-01	S-02	S-03	S-04	S-05	S-06	S-07	S-08	SP-1-S-6"	SP-1-S-3'	SP-1-S-5'	SP-1-S-7'	SP-1-S-9'	SP-1-S-11'	SP-1-S-13
Sample Date	Method A	Allowable	4/30/2015	4/30/2015	4/30/2015	4/30/2015	4/30/2015	4/30/2015	6/3/2015	6/3/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015
Sample Depth (ft bgs)	CUL	Limits	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	3	5	7	9	11	13
TCLP Metals by USEPA Method 6020A	. & 200.8 (mg	g/L)															-
Arsenic	NA	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Lead	NA	5	9.64	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Mercury	NA	0.2	0.1 U	0.1 U													
BTEX Compounds by USEPA Method 8021B (mg/kg)																	
Benzene	0.03	NA									0.02 U	0.02 U					
Ethylbenzene	6	NA									0.02 U	0.02 U					
Toluene	7	NA									0.02 U	0.02 U					
Total Xylenes	9	NA									0.06 U	0.06 U					
Total Petroleum Hydrocarbons by Me	otal Petroleum Hydrocarbons by Methods NWTPH-Gx and NWTPH-DX (mg/kg)															_	
Gasoline Range Hydrocarbons	30	NA									2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diesel Range Hydrocarbons	2000	NA									50 U	50 U					
Motor Oil Range Hydrocarbons	2000	NA									250 U	250 U					

NOTES:

Detected results in bold font.

Shaded values exceed MTCA Method A Cleanup Levels

https://fortress.wa.gov/ecy/clarc/FocusSheets/Soil%20Methods%20B%20and%20A%20unrestricted.pdf

-- = not analyzed

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

TCLP = toxicity characteristic leaching procedure

U = Analyte not detected at or above method reporting limit.

Sample Name		S-09	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18	S-19
Sample Date	MTCA Method A CUL	6/5/2015	6/4/2015	6/4/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015
Sample Depth (ft bgs)	Sample Depth (ft bgs)		1	1	15	15	11	15	10	12	12	10
Total Metals by USEPA Method 6020A & 200	0.8 (mg/kg)			•	•	•	•	•		•	•	
Arsenic	20	2.83	33	16.5	1.64	1.2	2.31	1.53	1.88	1.86	2.38	1.62
Cadmium	2	1 U	1 U	1.62	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Lead	250	25.2	85.8	335	6.46	4.57	25.9	4.41	5.42	6.73	3.72	8.12
BTEX Compounds by USEPA Method 8021B	(mg/kg)				•	•	•	•		•	•	
Benzene	0.03				0.02 U							
Ethylbenzene	6				0.27	0.02 U	0.02 U	0.67	0.02 U	0.02 U		
Toluene	7				0.02 U							
Total Xylenes	9				0.73	0.06 U	0.06 U	1.6	0.06 U	0.06 U		
Total Petroleum Hydrocarbons by Methods	NWTPH-Gx and N	WTPH-DX (mo	g/kg)	•	•	•	•	•		•	•	
Gasoline Range Hydrocarbons	30											
Diesel Range Hydrocarbons	2000				1800	450		4800				
Motor Oil Range Hydrocarbons	2000				250 U	250 U		250 U				
Total Petroleum Hydrocarbons by Method	NWTPH-HCID (Pre	sence/Absen	ce)		•		•					
Gasoline Range Hydrocarbons	NA				ND							
Diesel Range Hydrocarbons	NA				DETECT	DETECT	ND	DETECT	ND	ND	ND	ND
Motor Oil Range Hydrocarbons	NA				ND							

NOTES:

Detected results in bold font.

Shaded values exceed MTCA Method A Cleanup Levels

https://fortress.wa.gov/ecy/clarc/Focus Sheets/Soil%20 Methods%20 B%20 and %20 A%20 unrestricted.pdf

-- = not analyzed

DETECT = analyte detected

ft bgs = feet below ground surface

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

NA = not applicable

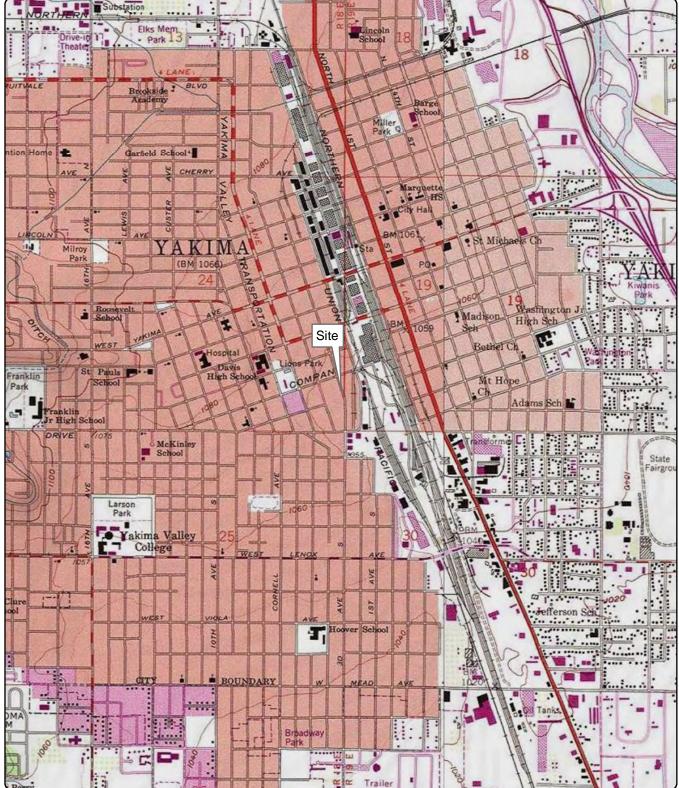
ND = non-detect

TCLP = toxicity characteristic leaching procedure

U = Analyte not detected at or above method reporting limit.

FIGURES

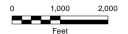




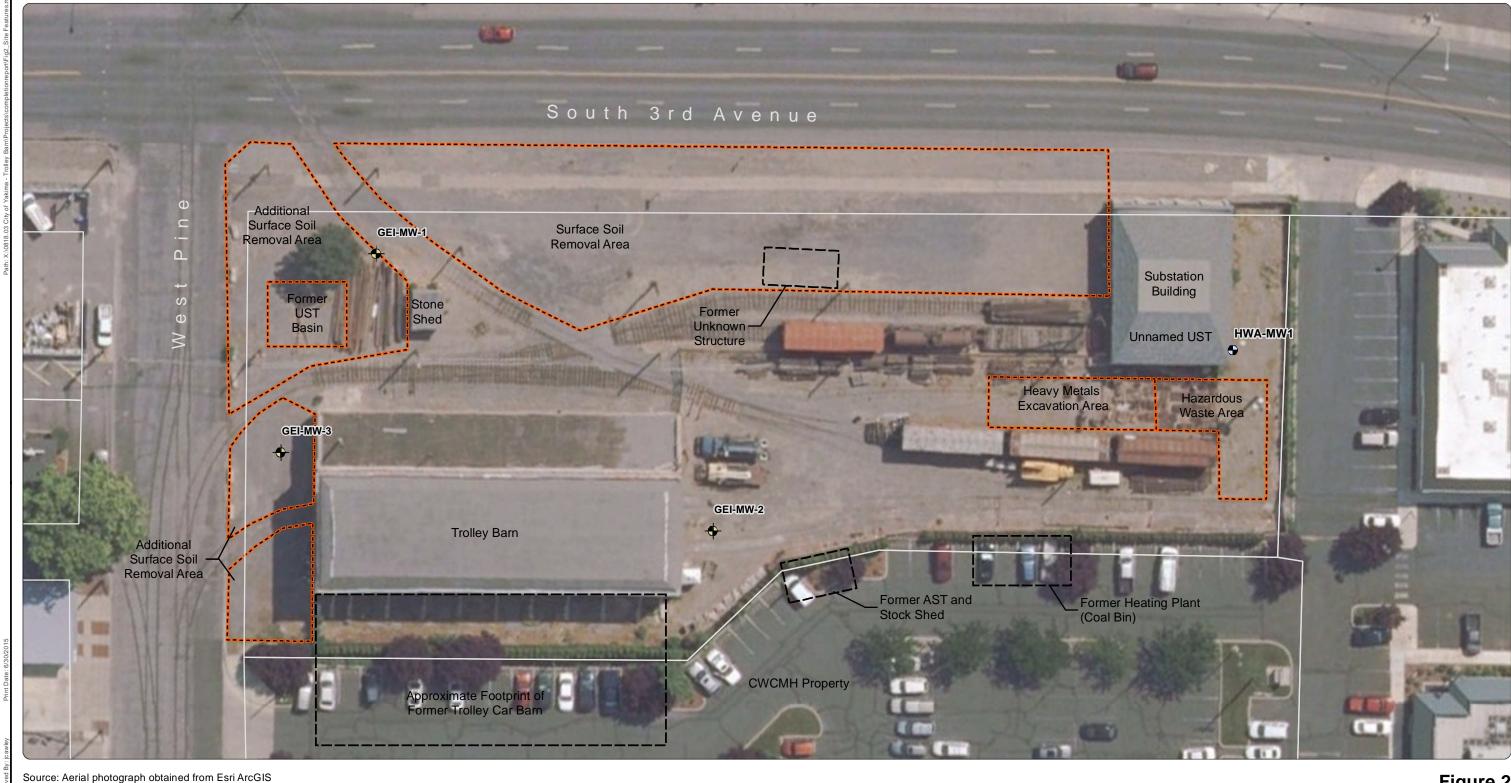
Site Address: 404 S 3rd Ave, Yakima, Washington Source: US Geological Survey (1990) 7.5-minute topographic quadrangle: Yakima West Section 24, Township 13 North, Range 18 East

Figure 1 **Site Location**

Trolley Barn Site Yakima, Washington







Source: Aerial photograph obtained from Esri ArcGIS Online

lotes:

AST = aboveground storage tank UST = underground storage tank



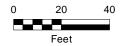
This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Legend

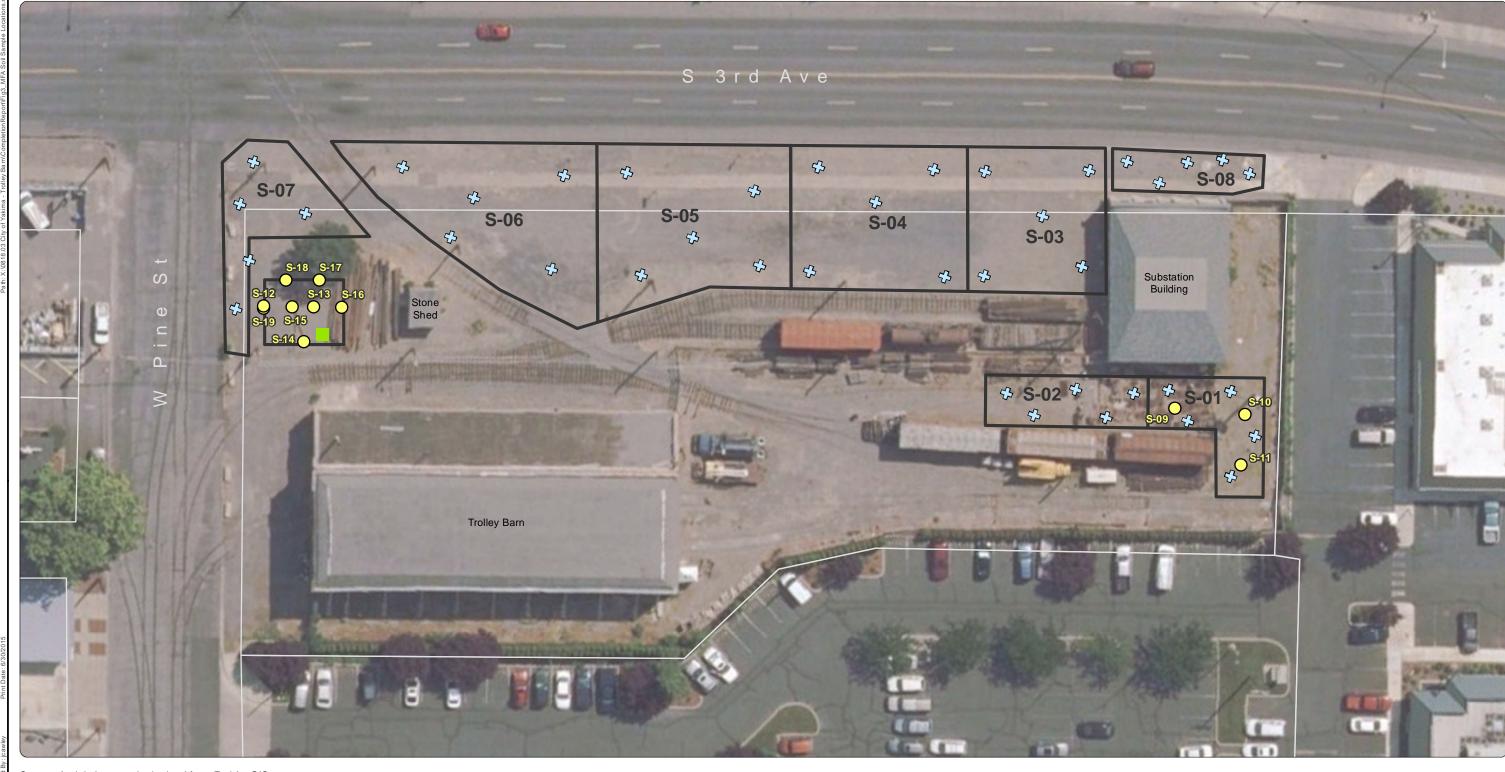
- Monitoring Well (HWA GeoSciences, 2007)
- Monitoring Wells (GeoEngineers, 2014)
- Former Structure Footprints
 - Parcel Boundaries
- Approximate Excavation Area

Figure 2 Site Features and Areas of Interest

Trolley Barn Site Yakima, Washington







Source: Aerial photograph obtained from Esri ArcGIS

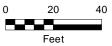
Legend

- O Post-Excavation Confirmation Sample Location
- Pre-Excavation, 5-point Composite Characterization Sample Location
- Pre-Excavation Test Pit Sample Location
- Sample Areas

Figure 3 MFA Soil Sample Locations

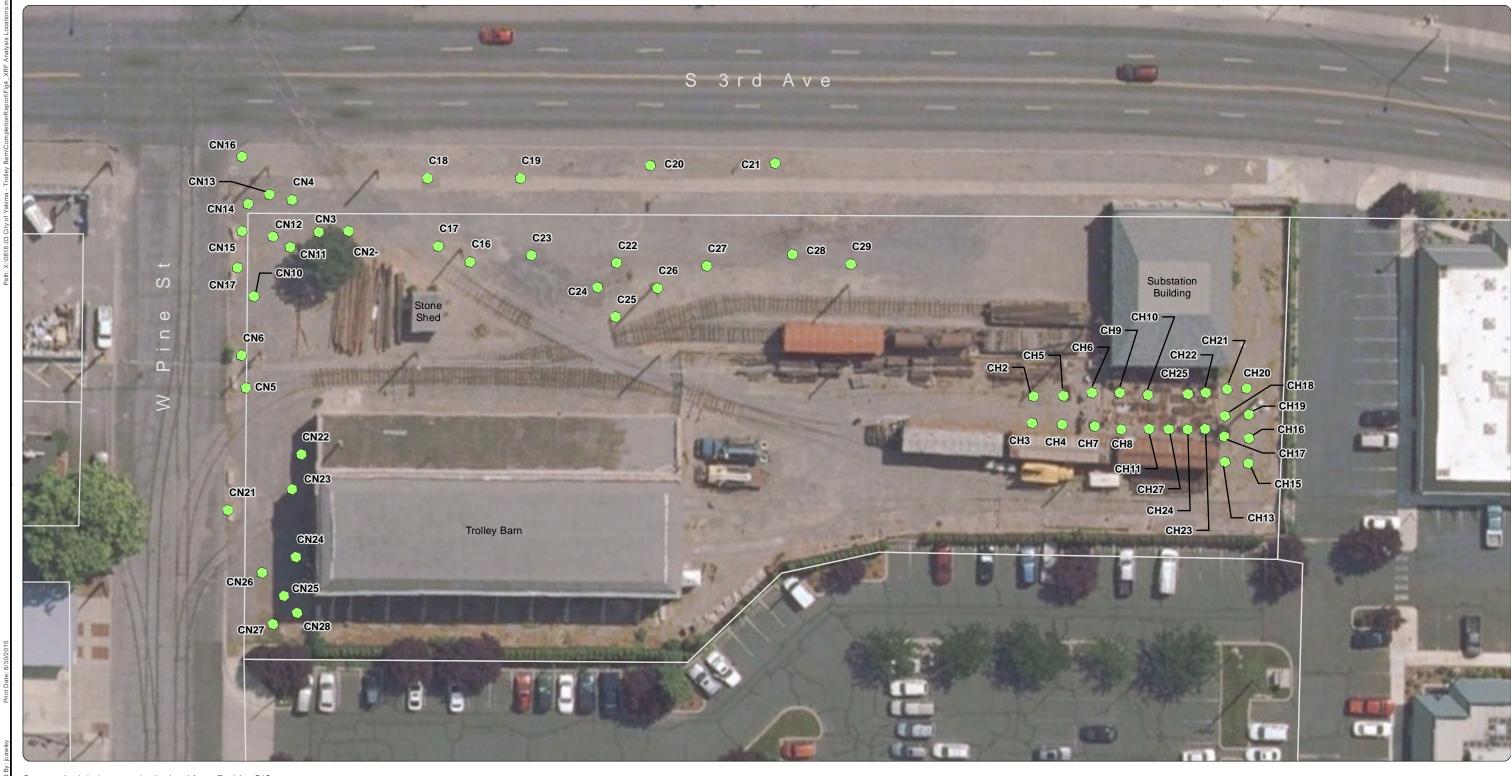
Trolley Barn Site Yakima, Washington







This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or



Source: Aerial photograph obtained from Esri ArcGIS

Legend

Post-excavation XRF Analysis Locations (June 2015)

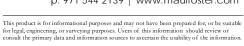
Parcel Boundaries

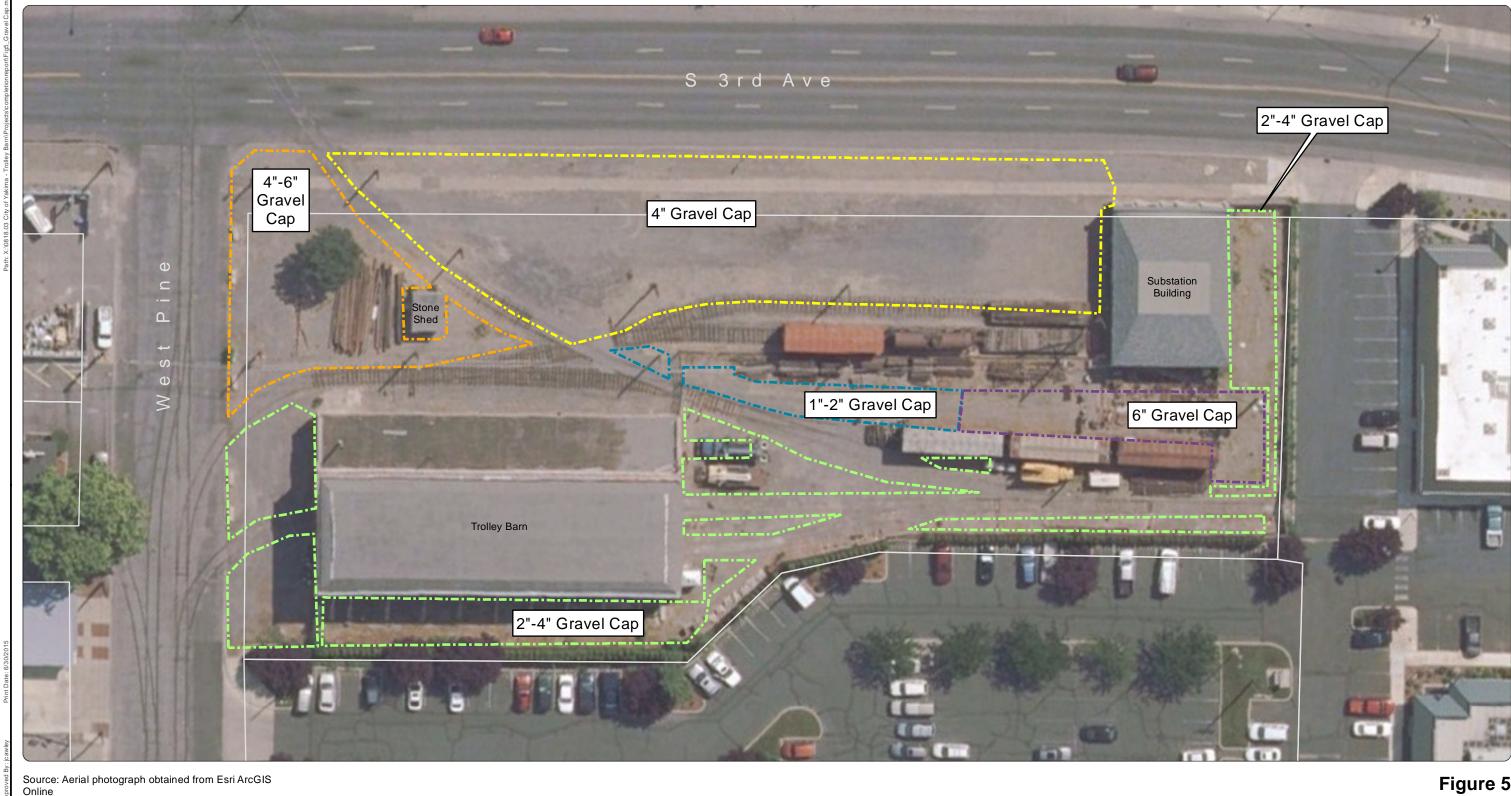
Figure 4 **XRF Analysis Locations**

Trolley Barn Site Yakima, Washington









Legend

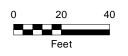
Parcel Boundaries **Gravel Cap Depth**

1"-2"

Figure 5 Location of Gravel Cap

Trolley Barn Site Yakima, Washington







APPENDIX A

LABORATORY REPORTS AND DATA VALIDATION MEMORANDUM



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0818.03.01 | JUNE 25, 2015 | TROLLEY BARN

This report reviews the analytical results for soil samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Trolley Barn site located at the corner of South 3rd Avenue and West Pine Street at 404 South 3rd Avenue in Yakima, Washington. The samples were collected in April and June 2015.

Friedman and Bruya, Inc. (FBI) performed the analyses. FBI report numbers 505036, 505036 additional, 506163, 506089, 506164 and 506246 were reviewed. The analyses performed and samples analyzed are listed below. Some analyses may not have been performed on all samples.

Analysis Reference

Hydrocarbon Identification (HCID)	NWTPH-HCID			
Diesel and Motor Oil	NWTPH-Dx			
Gasoline	NWTPH-Gx			
Total Metals	USEPA 6020A/200.8			
TCLP Metals	USEPA 1311/6020/200.8			
BTEX list Volatile Organic Compounds	USEPA 8021B			

NWTPH = Northwest Total Petroleum Hydrocarbons SIM = Selected Ion Monitoring TCLP = Toxicity Characteristic Leaching Procedure USEPA = U.S. Environmental Protection Agency

Samples Analyzed								
Report 505036	Report 506089	Report 506163	Report 506164	Report 506246				
S-01	S-07	SP-1-S-11'	S-09	S-12				
S-02	S-08	SP-1-S-13'	S-10	S-13				
S-03		SP-1-S-3'	S-11	S-14				
S-04		SP-1-S-6"		S-15				
S-05		SP-1-S-7'		S-16				
S-06		SP-1-S-9'		S-17				
				S-18				
				S-19				

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2011, 2014a,b) and appropriate laboratory and method-specific guidelines (FBI, 2014; USEPA, 1986).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the USEPA procedures (e.g., NWTPH-Dx analysis).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately, except for the following. Samples included in FBI report 505036 were received by the laboratory at 21 degrees Celsius. No action necessary for temperature exceedance of samples included in report 505036 as soil samples were only analyzed for TCLP metals.

All other samples were preserved and stored appropriately.

BIANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch.

All laboratory method blanks were non-detect.

Trip Blanks

Trip blanks were not required for this sampling event because samples were not analyzed for volatile organic compounds.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

MS/MSD results are used to evaluate laboratory precision and accuracy.

Sample results with high analyte concentrations (more than four times the spiked concentration) were not qualified based on MS/MSD percent recovery or relative percent difference (RPD) exceedances.

Sample results associated with minor MS/MSD percent recovery or RPD exceedances were not qualified when all associated batch QC was deemed suitable.

All other MS/MSD recoveries and RPDs were within acceptance limits.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. Laboratory duplicate results were only reported for Method NWTPH-Gx and BTEX compounds by USEPA Method 8021A. Duplicate evaluation wasn't applicable when original or laboratory duplicate results were non-detect. All RPDs for laboratory duplicates were within acceptance criteria.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD) RESULTS

An LCS/LCSD is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency, with the following exceptions.

All LCS analyte results were within acceptance limits for percent recovery. LCSD analysis was performed for methods NWTPH-Dx (aqueous) and USEPA Method 8082 in place of quality control MS/MSD samples.

FIFLD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. No field duplicate samples were collected for this sampling event.

CONTINUING CALIBRATION VERIFICATION (CCV) RESULTS

CCV results are used to demonstrate instrument precision and accuracy through the end of the sample batch. CCV results were not provided by FBI.

Based on follow-up conversations with FBI, all CCVs were within acceptance limits for percent recovery.

REPORTING LIMITS

FBI reported results to the reporting limit (RL). Samples requiring dilutions had adjusted RLs.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

Original chain of custody sheets didn't contain all analyses requests. FBI project management (PM) communicated with MFA PMs after sample receipt by laboratories. All analyses requested by MFA were correctly reported.

No additional issues were found.

- FBI 2014. Quality Assurance Plan. Friedman & Bruya, Inc. Seattle, WA
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2014a. USEPA contract laboratory program, national functional guidelines for inorganic superfund data review. EPA 540/R-013/001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.
- USEPA. 2014b. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540/R-014/002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.

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

June 18, 2015

Justin Clary, Project Manager Maul Foster Alongi 400 E Mill Plain Blvd, Suite 400 Vancouver, WA 98660

Dear Mr. Clary:

Included are the results from the testing of material submitted on June 5, 2015 from the 0818-03 Trolley Barn, F&BI 506164 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0618R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 5, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi 0818-03 Trolley Barn, F&BI 506164 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
506164 -01	S-09
506164 -02	S-10
506164 -03	S-11

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020A

Client ID: S-09 Client: Maul Foster Alongi

Date Received: 06/05/15 Project: 0818-03 Trolley Barn, F&BI 506164

 Date Extracted:
 06/10/15
 Lab ID:
 506164-01

 Date Analyzed:
 06/10/15
 Data File:
 506164-01.019

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.83
Cadmium <1
Lead 25.2

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020A

Client ID: S-10 Client: Maul Foster Alongi

Date Received: 06/05/15 Project: 0818-03 Trolley Barn, F&BI 506164

 Date Extracted:
 06/10/15
 Lab ID:
 506164-02

 Date Analyzed:
 06/10/15
 Data File:
 506164-02.020

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 33.0 Cadmium <1 Lead 85.8

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020A

Client ID: S-11 Client: Maul Foster Alongi

Date Received: 06/05/15 Project: 0818-03 Trolley Barn, F&BI 506164

 Date Extracted:
 06/10/15
 Lab ID:
 506164-03

 Date Analyzed:
 06/10/15
 Data File:
 506164-03.023

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 16.5 Cadmium 1.62 Lead 335

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020A

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: 0818-03 Trolley Barn, F&BI 506164

Date Extracted: 06/10/15 Lab ID: I5-350 mb
Date Analyzed: 06/10/15 Data File: I5-350 mb.017
Matrix: Soil Instrument: ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Cadmium <1 Lead <1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/18/15 Date Received: 06/05/15

Project: 0818-03 Trolley Barn, F&BI 506164

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020A

Laboratory Code: 506164-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	31.4	130 b	124 b	75-125	5 b
Cadmium	mg/kg (ppm)	10	<1	103	105	75-125	2
Lead	mg/kg (ppm)	50	81.5	48 b	72 b	75-125	40 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	100	80-120
Cadmium	mg/kg (ppm)	10	105	80-120
Lead	mg/kg (ppm)	50	104	80-120

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.
- ${
 m jl}$ 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.

506164 SAI	MPLE CHAIN OF CUSTODY	ME	06/05/15
Send Report To WSTIN CLARY CC. JESSICA CAMEY	SAMPLERS (signature) (awley		TURNAROUND TIME
Company MFA	PROJECT NAME/NO. U	PO#	✓ Standard (2 Weeks) □ RUSH
Address 400 F.M. Hain, #400,	0818.03 TROLLEY BARN		Rush charges authorized by
City, State, ZIP Vancouver, WA 98(clos)	REMARKS		SAMPLE DISPOSAL ☐ Dispose after 30 days
Phone # 360-984-8502 Fax #			☐ Return samples XWill call with instructions

				_						ANA	LYS	ES R	EQU	EST	ED				
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Lead, Arsenics Cad. USEDA 1,000B							Notes
5-09	0/1	6/5/15	0900	5	2 1							X							
5-10	02	6/4/15	1530	S	2 1							X							
S-11		1.1.1-	1430	S	21							X		_					
								ļ											
·																			
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

			£
SIGNATURE	PRINT NAME	COMPANY	DATE TIME
Relinquished by	deanley	MFA	US/15 1330
Received by:	Mike Browne	Io	6/5/15-1330
Relinquished by:	Mike Browne	To	6/5/18 1735
Received by:	Selena AtaV wife	TESB, Pul	6/8/15 1735

FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

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

June 11, 2015

Justin Clary, Project Manager Maul Foster Alongi 400 E Mill Plain Blvd, Suite 400 Vancouver, WA 98660

Dear Mr. Clary:

Included are the results from the testing of material submitted on June 5, 2015 from the Trolley Barn 0818-03, F&BI 506163 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0611R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 5, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Trolley Barn 0818-03, F&BI 506163

Laboratory ID	Maul Foster Alongi
506163 -01	SP-1-S-6"
506163 -02	SP-1-S-3'
506163 -03	SP-1-S-5'
506163 -04	SP-1-S-7'
506163 -05	SP-1-S-9'
506163 -06	SP-1-S-11'
506163 -07	SP-1-S-13

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/15 Date Received: 06/05/15

Project: Trolley Barn 0818-03, F&BI 506163

Date Extracted: 06/08/15 Date Analyzed: 06/08/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
SP-1-S-6" 506163-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	93
SP-1-S-3' 506163-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	93
SP-1-S-5' 506163-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	93
SP-1-S-7' 506163-04	<0.02	< 0.02	< 0.02	< 0.06	<2	101
SP-1-S-9' 506163-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	101
SP-1-S-11' 506163-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	106
SP-1-S-13 506163-07	< 0.02	< 0.02	< 0.02	<0.06	<2	110
Method Blank 05-1275 MB	<0.02	< 0.02	<0.02	<0.06	<2	92

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/15 Date Received: 06/05/15

Project: Trolley Barn 0818-03, F&BI 506163

Date Extracted: 06/08/15 Date Analyzed: 06/08/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
SP-1-S-6" 506163-01	< 50	<250	115
SP-1-S-3' 506163-02	< 50	<250	114
SP-1-S-5' 506163-03	< 50	<250	109
SP-1-S-7' 506163-04	< 50	<250	109
SP-1-S-9' 506163-05	< 50	<250	108
SP-1-S-11' 506163-06	< 50	<250	113
SP-1-S-13 506163-07	< 50	<250	110
Method Blank 05-1065 MB	< 50	<250	115

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-6" Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-01

 Date Analyzed:
 06/08/15
 Data File:
 506163-01.040

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-3' Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-02

 Date Analyzed:
 06/08/15
 Data File:
 506163-02.041

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-5' Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-03

 Date Analyzed:
 06/08/15
 Data File:
 506163-03.042

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-7' Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-04

 Date Analyzed:
 06/08/15
 Data File:
 506163-04.043

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID:	SP-1-S-9'	Client:	Maul Foster Alongi
------------	-----------	---------	--------------------

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-05

 Date Analyzed:
 06/08/15
 Data File:
 506163-05.044

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-11' Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-06

 Date Analyzed:
 06/08/15
 Data File:
 506163-06.048

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: SP-1-S-13 Client: Maul Foster Alongi

Date Received: 06/05/15 Project: Trolley Barn 0818-03, F&BI 506163

 Date Extracted:
 06/07/15
 Lab ID:
 506163-07

 Date Analyzed:
 06/08/15
 Data File:
 506163-07.049

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 6020A and 40 CFR PART 261

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: NA Project: Trolley Barn 0818-03, F&BI 506163

Date Extracted: 06/07/15 Lab ID: I5-343 mb
Date Analyzed: 06/08/15 Data File: I5-343 mb.035
Matrix: Soil Instrument: ICPMS1

Units: mg/L (ppm) Operator: SP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Indium 93 70 130 Holmium 93 70 130

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/15 Date Received: 06/05/15

Project: Trolley Barn 0818-03, F&BI 506163

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 506163-01 (Duplicate)

•	-	Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	81	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	92	65-123
Xylenes	mg/kg (ppm)	1.5	91	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/15 Date Received: 06/05/15

Project: Trolley Barn 0818-03, F&BI 506163

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 506159-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	109	112	73-135	3

		Percent					
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Diesel Extended	mg/kg (ppm)	5,000	105	74-139			

ENVIRONMENTAL CHEMISTS

Date of Report: 06/11/15 Date Received: 06/05/15

Project: Trolley Barn 0818-03, F&BI 506163

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 6020A AND 40 CFR PART 261

Laboratory Code: 506114-03 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	111	110	50-150	1
Lead	mg/L (ppm)	1.0	<1	94	95	50-150	1

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/L (ppm)	1.0	109	70-130
Lead	mg/L (ppm)	1.0	94	70-130

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.

5	06	16	3
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SAMPLE CHAIN OF CUSTODY

ME 06/05/15

V52	, p =
of	233

Send Report To Justin Clary CC JESSICA CAWLEY
Company MAUL FOSTER BALONGI
Address 400 & MILL PLAIN BLVD.
City, State, ZIP VANCOUVER, WA 98660
Phone # 360-984-8502 Fax #

SAMPLERS (signature) Canhe		Page #_
PROJECT NAME/NO. TROLLEY BARN 0818.03	PO#	TURNAI Standard (2) RUSH 24 Rush charges
REMARKS 5 CONTAINERS = 1	(40z)+4(5035mi)	SAMPL Dispose after

٦	Page #	of	120
4	TURNARO		E
-	☐ Standard (2 We	eks)	
- 1	RUSH 24 ho	w	
١	Rush charges aut	horized b	y
4			
J	SAMPLE I	DISPOSAL	<i>-</i>
H	☐ Dispose after 3		
	☐ Return samples	S]
╛	Will call with i	nstruction	s

										 ANA	LYS	ES I	REOI	JEST	ED		 	 	
Sample ID	Lab ID	Dat Samp	oled S	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	SVOCs by 8270	S	TCLP- lead	7	(DX494)*			-4	Notes	
SP-1-5-6" SP-1-5-3"	0/2	6/5/1	15 1	1140	S	5						X	X				<i>x</i> -	6/5/c	
SP-1-5-3'	02		1	1145	S	5							X				0	<u> </u>	
SP-1-5-5'	03		1	1150	S	5						X	X						
SP-1-5-7'	04			455	S	5							X						\dashv
SP - 1-S-9'	05		/	1205	S	5					_		X						\dashv
SP - 1-5-11'	66			1210	S	5					$\neg \uparrow$	Ϋ́	X				<u> </u>		\dashv
SP - 1-S-13	071	1	ı	220	S	5					_	X	X						\dashv
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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SIGNATURE PRINT NAME COMPANY DATE TIME

Relinquished by: Actually J. Carrier MFA 6/5/15/1330

Received by: Browne IO 6/5/15/1330

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Received by: Lower IO 6/5/15/1735

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

June 22, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on June 11, 2015 from the Trolley Barn 0818-03, F&BI 506246 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0622R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 11, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Trolley Barn 0818-03, F&BI 506246 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
506246 -01	S-12
506246 -02	S-13
506246 -03	S-14
506246 -04	S-15
506246 -05	S-16
506246 -06	S-17
506246 -07	S-18
506246 -08	S-19

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

Date Extracted: 06/12/15 Date Analyzed: 06/12/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
S-12 506246-01	ND	D	ND	119
S-13 506246-02	ND	D	ND	106
S-14 506246-03	ND	ND	ND	111
S-15 506246-04	ND	D	ND	114
S-16 506246-05	ND	ND	ND	111
S-17 506246-06	ND	ND	ND	106
S-18 506246-07	ND	ND	ND	105
S-19 506246-08	ND	ND	ND	108
Method Blank 05-1086 MB	ND	ND	ND	125

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

Date Extracted: 06/18/15

Date Analyzed: 06/18/15 and 06/19/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) (Limit 50-150)
S-12 506246-01	< 0.02	< 0.02	0.27	0.73	110
S-13 506246-02	< 0.02	< 0.02	< 0.02	< 0.06	95
S-14 506246-03	<0.02	< 0.02	< 0.02	< 0.06	95
S-15 506246-04	< 0.02	< 0.02	0.67	1.6	134
S-16 506246-05	< 0.02	< 0.02	< 0.02	< 0.06	95
S-17 506246-06	< 0.02	< 0.02	< 0.02	< 0.06	95
Method Blank 05-1291 MB2	< 0.02	<0.02	< 0.02	< 0.06	97

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

Date Extracted: 06/17/15 Date Analyzed: 06/17/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
S-12 506246-01	1,800	<250	98
S-13 506246-02	450	<250	109
S-15 506246-04	4,800	<250	110
Method Blank 05-1121 MB	< 50	<250	107

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-12 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-01

 Date Analyzed:
 06/12/15
 Data File:
 506246-01.047

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.64
Cadmium <1
Lead 6.46

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-13 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-02

 Date Analyzed:
 06/12/15
 Data File:
 506246-02.048

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.20 Cadmium <1 Lead 4.57

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-14 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-03

 Date Analyzed:
 06/12/15
 Data File:
 506246-03.049

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.31
Cadmium <1
Lead 25.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-15 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-04

 Date Analyzed:
 06/12/15
 Data File:
 506246-04.051

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.53
Cadmium <1
Lead 4.41

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-16 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-05

 Date Analyzed:
 06/12/15
 Data File:
 506246-05.052

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.88
Cadmium <1
Lead 5.42

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-17 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-06

 Date Analyzed:
 06/12/15
 Data File:
 506246-06.053

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.86
Cadmium <1
Lead 6.73

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-18 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-07

 Date Analyzed:
 06/12/15
 Data File:
 506246-07.054

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 2.38
Cadmium <1
Lead 3.72

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-19 Client: Maul Foster Alongi

Date Received: 06/11/15 Project: Trolley Barn 0818-03, F&BI 506246

 Date Extracted:
 06/12/15
 Lab ID:
 506246-08

 Date Analyzed:
 06/12/15
 Data File:
 506246-08.055

 Matrix:
 Soil
 Instrument:
 ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic 1.62 Cadmium <1 Lead 8.12

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: NA Project: Trolley Barn 0818-03, F&BI 506246

Date Extracted: 06/12/15 Lab ID: I5-353 mb
Date Analyzed: 06/12/15 Data File: I5-353 mb.031
Matrix: Soil Instrument: ICPMS1

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

Concentration

Analyte: mg/kg (ppm)

Arsenic <1 Cadmium <1 Lead <1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

·	•	_	Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	0.5	99	86	69-120	14
Toluene	mg/kg (ppm)	0.5	100	101	70-117	1
Ethylbenzene	mg/kg (ppm)	0.5	101	101	65-123	0
Xylenes	mg/kg (ppm)	1.5	98	99	66-120	1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 506246-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	400	110	114	63-146	4

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	110	79-144

ENVIRONMENTAL CHEMISTS

Date of Report: 06/22/15 Date Received: 06/11/15

Project: Trolley Barn 0818-03, F&BI 506246

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 506216-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	4.36	84	84	67-121	0
Cadmium	mg/kg (ppm)	10	<1	102	101	88-121	1
Lead	mg/kg (ppm)	50	5.99	102	100	59-148	2

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	96	83-113
Cadmium	mg/kg (ppm)	10	106	85-114
Lead	mg/kg (ppm)	50	108	80-120

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.
- ${
 m jl}$ 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.

5	06	246
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SAMPLE CHAIN OF CUSTODY ME 06-11-15 BZ3 / 182

Send Report To JUSTIN CLARY CC. JUSSICA CAWLEY	SAMPLERS (signature)	Page #
Company M FA	PROJECT NAME/NO PO#	Standard (2 Weeks) □ RUSH
Address 400 EMILL PLAIN, #400	TROUGHBARN /0918.03	Rush charges authorized by
City, State, ZIP VANCOUVER, WA 98660	REMARKS WILL REQUEST BYEX &	SAMPLE DISPOSAL ☐ Dispose after 30 days
Phone #_360-984-8502 Fax #	NWTPH-Gx or Dx depending on HCID results. Thank you.	☐ Return samples Kwill call with instructions

										ANA	LYSE	ES R	EQU	JEST	ED			
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS 60/08/CADMINI	LEAD A CANIC	NWTPH-HCID	NUTPH-DX	BTGK			Notes
S-12	01 A-E	6/10/15	0915	5	5			墨				X	X	*	/			*-per JC
5-13	02 \		0700		1								1	*	/			6/16/15
3 - 14	03		0705															me
5-15	04		0750									\prod		*	~			V-DrJC
5-16	05		073D									П			~			1-pr3C
5-17	06		0845										T		/			M4.
5-18	67		0850									11						
5-19	08	V	900	V	V						\ 		V					
													•	3		10	colv	nd at <u>2/</u> °C

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JESSICA CANNEY	MFA	6/10/15	1330
Received by:	200	FLBI	6-11-15	16:10
Relinquished by:				
Received by:				

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ENVIRONMENTAL CHEMISTS

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

June 2, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the additional results from the testing of material submitted on May 4, 2015 from the Trolley Barn 0818.03, F&BI 505036 project. There are 5 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0602R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 4, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Trolley Barn 0818.03, F&BI 505036 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
505036 -01	S-01
505036 -02	S-02
505036 -03	S-03
505036 -04	S-04
505036 -05	S-05
505036 -06	S-06

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-02 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-02

 Date Analyzed:
 05/12/15
 Data File:
 505036-02.033

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Mercury <0.1 0.2

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Trolley Barn 0818.03, F&BI 505036

Date Extracted: 05/11/15 Lab ID: I5-294 mb
Date Analyzed: 05/12/15 Data File: I5-294 mb.028
Matrix: Soil Instrument: ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Mercury <0.1 0.2

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/15 Date Received: 05/04/15

Project: Trolley Barn 0818.03, F&BI 505036

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 200.8 AND 40 CFR PART 261

Laboratory Code: 505036-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Mercury	mg/L (ppm)	1.0	< 0.1	93	94	50-150	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Mercury	mg/L (ppm)	1.0	90	70-130

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.
- ${\it ca}$ 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.

505036 SAI	MPLE CHAIN OF CUSTODY	HE 05	104/15 827
Send Report To J. CLARY YEAR VAN Company MFA Jessica Cauley Address M4 5/6/15	PROJECT NAME/NO. TROLLEY BARN OBI 8.03	PO#	Page #of TURNAROUND TIME Standard Turnaround RUSH Rush charges authorized by:
City, State, ZIPFax # Email Address	PROJECT ADDRESS 404 W PINE ST. Yakima, WA 9850; ELECTRONIC DATA REQUESTED	3	SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions Samples Received at °C

			·							ANA			EQU	EST	ED		
; Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH.Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Teip. 1640. ABSENIC	TCLP HA				Notes
5-01	01	4/30/15	1530	S	1							\	/				#-perJC
5-02	02		1515									Ī	*				5/28/15 M4. V-per 3C 5/18/15 Ma
S -03	03		1800														V-per 3C
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S-06	06	4	1845	√	\bigvee							V					
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044
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Relinquished by:

Received by:

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Received by:

ii				
	PRINT NAME	COMPANY	DATE	TIME
V	JESSICA CANLEY	MAUL FASTR'AWNGI	5/1/15	1200 pm
· Av-	Dhan Phan	FEBT.	5/4/15	1445

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

May 14, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on May 4, 2015 from the Trolley Barn 0818.03, F&BI 505036 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0514R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 4, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Trolley Barn 0818.03, F&BI 505036 project. Samples were logged in under the laboratory ID's listed below.

<u> Laboratory ID</u>	<u>Maul Foster Alongi</u>
605036 -01	S-01
505036 -02	S-02
605036 -03	S-03
605036 -04	S-04
605036 -05	S-05
605036 -06	S-06

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-01 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-01

 Date Analyzed:
 05/12/15
 Data File:
 505036-01.030

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

Arsenic <1 5.0 Lead 9.64 5.0

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-02 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-02

 Date Analyzed:
 05/12/15
 Data File:
 505036-02.033

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-03 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-03

 Date Analyzed:
 05/12/15
 Data File:
 505036-03.034

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-04 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-04

 Date Analyzed:
 05/12/15
 Data File:
 505036-04.035

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-05 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-05

 Date Analyzed:
 05/12/15
 Data File:
 505036-05.036

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-06 Client: Maul Foster Alongi

Date Received: 05/04/15 Project: Trolley Barn 0818.03, F&BI 505036

 Date Extracted:
 05/11/15
 Lab ID:
 505036-06

 Date Analyzed:
 05/12/15
 Data File:
 505036-06.037

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Trolley Barn 0818.03, F&BI 505036

Date Extracted: 05/11/15 Lab ID: I5-294 mb
Date Analyzed: 05/12/15 Data File: I5-294 mb.028
Matrix: Soil Instrument: ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Date of Report: 05/14/15 Date Received: 05/04/15

Project: Trolley Barn 0818.03, F&BI 505036

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 200.8 AND 40 CFR PART 261

Laboratory Code: 505036-01 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	98	99	50-150	1
Lead	mg/L (ppm)	1.0	9.64	99 b	77 b	50-150	25 b

Laboratory Code: Laboratory Control Sample

		Percent									
	Reporting	Spike	Recovery	Acceptance							
Analyte	Units	Level	LCS	Criteria							
Arsenic	mg/L (ppm)	1.0	98	70-130							
Lead	mg/L (ppm)	1.0	94	70-130							

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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.
- ${
 m jl}$ 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.

505036 SAI	MPLE CHAIN OF CUSTODY	ME 05	5/04/15 BI
Send Report To J. CLARY YEAR VAN Company MFA Jessica Cauley Address Me statis	PROJECT NAME/NO. TROLLEY BARN OBI 8.03	PO #	Page # of TURNAROUND TIME Standard Turnaround RUSH Rush charges authorized by:
City, State, ZIP Phone #Fax #	PROJECT ADDRESS 404 W PINE ST. Yakima, WA 98503 • ELECTRONIC DATA REQUESTED		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions Samples Received at °C
Email Address			

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	; Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B.	VOCs by 8260	SVOCs by 8270	HFS	TELP. LEAD.						Note	s
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

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SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JESSICA CANLEY	MAUL FASTR'AWNGI	5/1/15	1200 PM
Received by: manage	Nhan Phan	FeBT.	5/2/15	1445
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Received by:				

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

June 9, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on June 4, 2015 from the Trolley Barn/0818-03, F&BI 506089 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Jessica Cawley MFA0609R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 4, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Trolley Barn/0818-03, F&BI 506089 project. Samples were logged in under the laboratory ID's listed below.

506089 -01 S-07 506089 -02 S-08

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-07 Client: Maul Foster Alongi

Date Received: 06/04/15 Project: Trolley Barn/0818-03, F&BI 506089

 Date Extracted:
 06/04/15
 Lab ID:
 506089-01

 Date Analyzed:
 06/05/15
 Data File:
 506089-01.015

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: S-08 Client: Maul Foster Alongi

Date Received: 06/04/15 Project: Trolley Barn/0818-03, F&BI 506089

 Date Extracted:
 06/04/15
 Lab ID:
 506089-02

 Date Analyzed:
 06/05/15
 Data File:
 506089-02.016

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Trolley Barn/0818-03, F&BI 506089

Date Extracted:06/04/15Lab ID:15-339 mbDate Analyzed:06/05/15Data File:15-339 mb.010Matrix:SoilInstrument:ICPMS1

Units: mg/L (ppm) Operator: SP

Concentration

Analyte: mg/L (ppm) TCLP Limit

ENVIRONMENTAL CHEMISTS

Date of Report: 06/09/15 Date Received: 06/04/15

Project: Trolley Barn/0818-03, F&BI 506089

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS USING EPA METHOD 200.8 AND 40 CFR PART 261

Laboratory Code: 505379-03 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/L (ppm)	1.0	<1	105	106	50-150	1
Lead	mg/L (ppm)	1.0	<1	95	95	50-150	0

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/L (ppm)	1.0	105	70-130
Lead	mg/L (ppm)	1.0	96	70-130

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.
- ${\it ca}$ 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 compound 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. Compounds in the sample matrix interfered with the quantitation of the analyte.
- 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.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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SAMPLE CHAIN OF CUSTODY

ME 06-04-15

BII /USI

Send Report To Justin C	SAMPLERS (signature) Cawley												Page # of1						
Company Maul Foster	PROJECT NAME/NO. PO #										TURNAROUND TIME • Standard Turnaround								
Address 1329 North S	Trolley Barn/0818.03											• RUSH							
	PROJECT ADDRESS												SAMPLE DISPOSAL						
City, State, ZIP Bellingh	404 S. 3rd Ave, Yakima, WA 98902											Dispose after 30 days Return samples							
Phone #360-984-8502	•										Will call with instructions								
Email Address jclary@r jcawley@	ELECTRONIC DATA REQUESTED												Samples Received at °C						
	ANA								SES I	REQU	JEST	ED							
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	TUP-lead						Notes	
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Friedman & Bruya, Inc. 3012 16th Avenue West	Relinquished by	SIGNATUI												NY			DATE		
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Ph. (206) 285-8282	Relinquished by		'AN	DOVO FOR								Pr			6	14/15	18:	30	
Fax (206) 283-5044	Received by:								+						╁		-		
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APPENDIX B PHOTOGRAPHS





Project Name: Project Number: 0818.03.01 Location:

404 S. 3rd Avenue

Trolley Barn

Yakima, Washington

Photo No.

Description

Looking south, excavation of Surface Soil Removal Area.



Photo No.

Description

Looking west, excavation depth of Surface Soil Removal Area.





Project Name: Trolley Barn Project Number: 0818.03.01 Location: 404 S. 3rd Av

404 S. 3rd Avenue Yakima, Washington

Photo No.

Description

IO attempt at unnamed UST decommissioning in Substation Building.

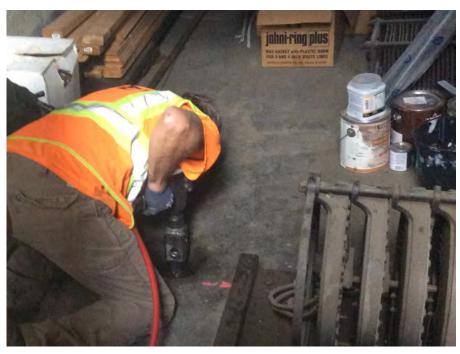


Photo No. 4

Description

Looking north-northeast, IO measuring depth of hazardous material excavation. Soil is wetted for dust control.





Project Name: Trolley Barn Project Number: 0818.03.01 Location: 404 S. 3rd Av

404 S. 3rd Avenue Yakima, Washington

Photo No.

5

Description

Looking south, loader receiving hazardous soil to move to stockpile area for disposal.



Photo No.

6

Description

Looking south, stockpile of hazardous soil.





Project Name: Project Number: Location:

0818.03.01 404 S. 3rd Avenue Yakima, Washington

Trolley Barn

Photo No. 7

Description

Discovery of highly impacted soil from Former UST Basin.



Photo No. 8

Description

Looking northwest, application of AnoxEA® in Former UST Basin (left) and compaction of backfill in Former UST Basin (right).





PHOTOGRAPHS

Project Name: Trolley Barn Project Number: 0818.03.01 Location: 404 S. 3rd Av

404 S. 3rd Avenue Yakima, Washington

Photo No.

Description

Looking east, gravel graded and compacted in Hazardous Soil Area (left).

Looking north, gravel cap west of Trolley Barn.



<u>Photo No.</u> 10

Description

Looking north, graded and compacted Surface Soil Removal Area.





<u>Photo No.</u> 11

<u>Description</u>
Looking north, inlet protection.

<u>Photo No.</u> 12

Description

Looking south, fence post replacement for one damaged during construction.

PHOTOGRAPHS

Project Name: Trolley Barn Project Number: 0818.03.01 Location: 404 S. 3rd Av

ation: 404 S. 3rd Avenue Yakima, Washington



APPENDIX C DISPOSAL RECORDS





Chemical Waste Management Of The Northwest

17629 Cedar Springs Lane Arlington, Oregon 97812 541-454-2643 EPA I.D.# ORDO89452353

LOAD NO	 		
		-5	
MANIFEST DOC. NO	 		

INBOUND

T/D: 13:21:10 2015-06-08 ID: 440637 TRK ID: 51

108240 lb 6

OUTBOUND

T/D: 13:58:12 2015-06-08

ID: 440637 TRK ID: 51 108240 16 G

40460 1b PT 67780 1b N

NET 33.89 TONS

GENERATOR _



and a second

Chemical Waste Management Of The Northwest

17629 Cedar Springs Lane Arlington, Oregon 97812 541-454-2643 EPA I.D.# ORDO89452353

LOAD NO.		-	-
MANIFEST DOC. NO.		<u> </u>	_

INBOUND T/D: 13:22:09 2015-06-08 ID: 440638 TRK ID: 65 99700 lb G

OUTBOUND T/D: 13:56:52 2015-06-08 ID: 440638 TRK ID: 65 99700 1b G 40740 1b PT 58960 1b N-NET 29.48 TONS

GENERATOR _____

903-ARLINGTON_OR



Chemical Waste Management Of The Northwest

17629 Cedar Springs Lane Arlington, Oregon 97812 541-454-2643 EPA J.D.# ORDO89452353

LOAD NO.	 	
MANIFEST DOC. NO.		

INBOUND T/D: 13:32:03 2015-06-08 ID: 440640 TRK ID: 57 108220 lb G

OUTBOUND T/D: 14:45:54 2015-06-08 ID: 440640 TRK ID: 57 108220 1b G 41240 1b PT 66980 1b N

NET 33.49 TONS

GENERATOR _____

903-ARLINGTON_OR



and a

Chemical Waste Management Of The Northwest

17629 Cedar Springs Lane Arlington, Oregon 97812 541-454-2643

EPA I.D.# ORDO89452353

LOAD NO		
		10
MANIFEST DOC. NO.	 	

INBOUND

T/D: 14:27:04 2015-06-08 ID: 440644 TRK ID: 61 68200 lb G

OUTBOUND

T/D: 15:10:58 2015-06-08
ID: 440644 TRK ID: 61
68200 lb G
41040 lb PT
27160 lb N

NET 13.58 TONS

GENERATOF	

903-ARLINGTON_OR

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Transporter Correctly Name U.S. EPA D Number U.S. EPA D Numb	101 5001	H SRD AVENUE									
Transporter Z Company Name R TRAISPORT Transporter Z Company Name Provided State		730 11 WA 98902		Ì							
Transporter 2 Company Nerne U.S. EPAID Number U.S. EPAID Number Designative Facility Name and Site Address CHEMICAL WASTE MANAGEMENT INC 17629 CECLAR SPRINGS LANE ORDOSA12 2333 BOLLS DOT Descriptor (resulting Proper Shipping Name, Hazard Class, ID Number, 1870 QUANTIFICATION OR 97912 97799 1870 Quantity Proper (early 18 arry) 1870 QUANTIFICATION OR 97912 97799 1870 QUANTIFICAT	6. Transporter 1 Company Name						U.S. EPA ID N	lumber			
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	IFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST 4. Generator ID Number	2. Page 1 of 3. Er		Phone	0.4	Tracking Nu		3 JJK
5. G	enerator's Name and Mailing Address	Gene	ator's Site Address	(if different tha	n mailing addre			
	TROLLEY BARN 404 SOUTH 3RD AVENUE							
		- 1						
	nerator's Phone:						*	
. Ti	ransporter 1 Company Name				U.S. EPA ID I			
	R TRANSPORT						H00002	3338
, Ti	ransporter 2 Company Name				U.S. EPA ID N	Number		
. D	lesignated Facility Name and Site Address				U.S. EPA ID I	Number		
	17629 CEDAR	SPRINGS LANE	ENT, INC		1	O.M.	D08945	2353
aci	ility's Phone: 154 1 4 54 - 264 3 ARLING TON O		1					
9a.		Number,	10. Conta		11. Total	12. Unit	13. W	aste Codes
IM	The second of th		No.	Туре	Quantity	Wt./Vol.		100
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en	nerator's/Offeror's Printed/Typed Name	Signature		all quantity gen	erator) is true.		Mont	n Day
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-			-					154
an	nsporter 2 Printed/Typed Name	Signature				**	Mont	h Day
3. [Discrepancy							
Ba.	. Discrepancy Indication Space Quantity	Гуре	Residue	4.1	Partial Re	jection	. [Full Rejection
	. Alternate Facility (or Generator)		Manifest Reference	e Number:	U.S. EPA ID	Number		
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Faci 18c.	. Signature of Alternate Facility (or Generator)		recycling systems)		4.			Mon

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number		. Emergency Response	Phone	4. Manifest	347	236	6 .1	JK
5. Generator's Name and Mailing Address	400 G	enerator's Site Address	if different th	an mailing addre			- 0	911
TROLLEY BARN			(n. z.m. z. z. m. m.					
Generator's Phone:	1							
Generator's Phone: 5. Transporter 1 Company Name				U.S. EPA ID	Michigan			
A CAMPAGNAT CONTRACTOR CONTRACTOR				U.S. EPAID	Number			
R-TRANSPORT						Honon	20330	
. Transporter 2 Company Name				U.S. EPA ID	Number			
I. Designated Facility Name and Site Address				U.S. EPA ID	Number			
17029	IICAL WASTE MANADE I CEDAR SPRINGS LAN NOTON OR 97812-9709			ľ	OR	D0894	2353	
		The second			1		-	_
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Ha	azard Class, ID Number,	10. Contair		11. Total	12. Unit	13.	Waste Code	es
HM and Packing Group (if any))		No.	Type	Quantity	Wt./Vol.		moderate Poster	
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ROCK TICKET



LOAD TICKET

75213

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

We make deliverierisk only and accedamages resulting i	pt no respons	urb line at cu sibility whatso		<u>Nam</u>			- Delivation Co.	
Received by	***************************************					Service Control		
Date (0/2/15)	Sold by			Phor	Home Office	· · · · · · · · · · · · · · · · · · ·		
A. Cured concrete B. Asphaltic materi (does not includ	als le	E. Glass F. Stainless G. Alumini H. Lime	um	P.O. Job #	#		***************************************	
C. Brick and mason D. Ceramic materia	ils .	I. Dirt Rock J. Bldg. De			ed by Anderson		-	
WEIGHT TICKET#	TIME	TRUCK NO.	QUAN'	TITY	PRODUCT	UNIT PRICE	AMOUNT	
126717	153	6	15.0	31	1'keminus			۰.
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	12							

***************************************		TOTAL						
DATE BILLED		.01/12						
DATE DILLED	1	PER M	ONTH IF ACCO	UNT IS NO) A LATE CHARGE OF 1.5% OT PAID WITHIN 10 DAYS OF	OU	OF COUNTY? YES □ NO IT OF CITY? YES □ NO	

INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.



DELIVERIES

LOAD TICKET

75209

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Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

We make delivering risk only and accidental descriptions of the control of the co	ept no respons	urb line at cu sibility whats		Nan Add	ne TO Environ	ental	
Received by					11:00		- Pa
Date 6/2/5	Sold by			Pho	ne Home 1-425-	5/1-	1484
A. Cured concrete B. Asphaltic mater (does not incluroofing) C. Brick and maso D. Ceramic materi	rials de nry	E. Glass F. Stainles G. Alumin H. Lime I. Dirt Roc J. Bldg. De	um k	P.O. Job	#		
WEIGHT TICKET #	TIME	TRUCK NO.	QUANT		PRODUCT	UNIT	AMOUNT
SHANA	8:001	9	1.75H)	Truck Time		-
SHART	9115	9+0	5.75			p. **	1
Stop	"3:W 3						
Start	8:40 4	549	7 Hn.	5	TRUCK Time		No
Stop	3,00 5	-					709
	6						
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ž	8						
	-9						
	10)					
	11						
	12						
					-		
		TOTAL					
DATE BILLED		CUSTO	MFR AGREES TO	PΔV (2	a) A LATE CHARGE OF 1.5%	OUT	OF COUNTY? YES □ NO
		PER N	NONTH IF ACCOU	NT IS NO	OT PAID WITHIN 10 DAYS OF TEE INCURRED IN COLLECTION.	01	IT OF CITY? YES □NO

PCS TICKET



LOAD TICKET

75208

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Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

Received by				Phor	ne Home 1-425-	577-1	984
Date 6/2/15	Sold by				Office Jim		1 ~ 1
A. Cured concrete B. Asphaltic materi (does not includ roofing) C. Brick and mason D. Ceramic materia	le nry	E. Glass F. Stainless G. Aluminu H. Lime I. Dirt Rock J. Bldg. Der	ım	P.O.	# 040 - 058-0		
WEIGHT TICKET #	TIME	TRUCK NO.	QUANT		PRODUCT	UNIT	AMOUNT
126724	8:51	16	15.0	l	PCS		
124725	8:56	2 5+P	30.3	35	PCS		
20729	0:40	3154D	31.6	19	PCS		7.500
126730	0:13	4 640	32.0	04	PCS		
26734	0:57	5 54P	29.8	3-7	PCS		
126736	11.28	6 Coff	32.1	4	PCS		
126738	11:57	7 54P	28.5	1	PCS		
126741	12.31	8 G+P	32.5	6	PCS		
126743 1	291	9 54P	29.7	9	pc5		
126746	143	10 GEP	35.0	6	PC5		
26747	54	1154	31.30	>	PCS		
26750	247	12 GP	28.80	2	PCS		
26751 2	2:55	5410	28.2	1	PCS		
			335.	7	0		
		TOTAL					

PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.



75237

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656

risk only and acc	ept no resp			1	ress 4045. 3rd Au	en+AC re	
Received by				Pho	ne lleme	-	Santifection 1
Date 6/3/15	Sold by	XII	,	1110	Office		
B. Asphaltic mater (does not inclu- roofing) C. Brick and maso	rials de nry	G. Alumin H. Lime I. Dirt Roc	um k	Job	# TRolley BANN		
WEIGHT TICKET #	TIME	TRUCK NO.	T		PRODUCT	UNIT	AMOUNT
14	7:6	1 5+P	37		Truck Time	20-	
P	10:30	2					÷ .
1	7:15	10/10/2	5.7	5	Trick Time	7.6	
P	1230	5					
4-50l0	10:30	经验	15.15	30	Truck Time-5010		
0	420						
+ -Solo	1230		3 =	0	TYLYKTIME SOLO	1	
>	4:00						
		**	/				· · · · · · · · · · · · · · · · · · ·
		TOTAL					
	Received by Date (A) 15 A. Cured concrete B. Asphaltic mater (does not incluroofing) C. Brick and maso D. Ceramic materi WEIGHT TICKET #	Received by Date Sold by A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonry D. Ceramic materials WEIGHT TICKET # TIME T:5 P 10:30 10:30 10:30 10:30 10:30 10:30	Received by Date Sold by A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonry D. Ceramic materials WEIGHT TICKET # TIME TRUCK NO. T:6 1 5+P 10:30 2 3 1 T:65 4 6+P 12:30 5 4 500 10:30 7 5 9 14 - Solo 12:30 10 6 4 10 11	Received by Date Sold by Col 3 15 Sold by Col 3	risk only and accept no responsibility whatsoever for damages resulting from such deliveries. Received by Date Sold by A. Cured concrete B. Asphaltic materials (does not include roofing) D. Ceramic materials D. Ceramic materials WEIGHT TICKET # TIME TRUCK NO. QUANTITY TIME TRUCK NO. QUANTITY TIME TRUCK AUDITY TIME TRUCK AUDITY	risk only and accept no responsibility whatsoever for damages resulting from such deliveries. Received by Date 3 / 15 Sold by A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonry D. Ceramic materials J. Bidg. Demolition WEIGHT TICKET # TIME TRUCK NO. QUANTITY PRODUCT TYUCK TIME P.O.# 040 - 058 - 02 Job # TROLLEY BARN Hauled by PRODUCT TYUCK TIME P.O.# 500 1030 7 5 Truck Time-Solo P.O.# Truck Time-Solo P.O.# 040 - 058 - 02 P.O.# 04	Received by Date C 13 / 15 A Cured concrete B. Asphaltic materials (does not include roofing) D. Ceramic materials D. Ceramic materials WEIGHT TICKET # TIME TRUCK NO. QUANTITY PRODUCT PRICE P. D. # O40 - 058 - 02 Job # Trock Time PRODUCT UNIT PRICE P. D. # O40 - 058 - 02 Job # Trock Time PRODUCT PRICE P. D. # O40 - 058 - 02

PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION. OUT OF CITY?
☐ YES ☐ NO

ROCK TICKET



damages resulting from such deliveries.

Received by

A. Cured concrete

roofing)

B. Asphaltic materials

C. Brick and masonry

(does not include

Date

DELIVERIES
We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for

Sold by

LOAD TICKET

Nº 75253

41 Rocky Top Road Yakima, WA 98908

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Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

E. Glass

H. Lime

I. Dirt Rock

TOTAL

F. Stainless Steel

G. Aluminum

Address	404 5. 3rd Ave	
Phone	Home	
	Office	

D. Ceramic materials J. Bldg. Demolition Hauled by TRUCK UNIT PRICE WEIGHT TICKET # TIME QUANTITY **PRODUCT AMOUNT** NO. 1031 1 2 12:39 3 5 6 6 6 8 9 10 11 12

DATE BILLED	
	-

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.



OUT OF COUNTY?

YES NO
OUT OF CITY?

YES NO

PCS



LOAD TICKET

75261

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

Received by	2.181			Phoi	ne <u>I</u>	Home		
Date 6/3/15	Sold by		endy o muc		9	Office		
A. Cured concret B. Asphaltic mate (does not incl roofing)	erials F ude (E. Glass E. Stainless G. Aluminu H. Lime	ım	P.O.		- 58-02	2	
C. Brick and mas D. Ceramic mate	onry I rials J	. Dirt Rock . Bldg. De	: molition		Λ	derson	2-0-111-01111-0111-0111-011	-
WEIGHT TICKET #	TIME	TRUCK NO.	QUANT	TTY		PRODUCT	UNIT PRICE	AMOUNT
126791	2:35 1	6	15.0	7	PCS			
126794	2:50 2	5	15.2	7	PCS			3
26798	3433	6	14.7	31	ROS			
26799	358 4	5	14.8	39	PC	>		
	5		and the second second second second	Start Fredholpsk visitation (de				
	6		59.5	SH				
	7			aut.				
	8	C replaced						
	9							
	10		4					
	11							
	12							
		TOTAL						

INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

PCS TICKET

385.76



LOAD TICKET

75240

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656

ROCK & DEMOLITION PITS YAKIMA, WASH.

DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for damages resulting from such deliveries.				LO Environ	mental	
	from such deliveries.		Address	ευς στ	w.c.	
Received by			Phone	Home		
Date 6/3/15	Sold by	, ,,,,,,	Office			
A. Cured concrete B. Asphaltic mater (does not include	ials F. Stainless		P.O. #	040-058-02	2_	
roofing) C. Brick and masor	H. Lime		Job#			
D. Ceramic materia	als J. Bldg. De		Hauled I	y Anderson		
WEIGHT TICKET #	TIME TRUCK NO.	QUANTIT		PRODUCT	UNIT PRICE	AMOUNT
126762	8:01 1 640	26.7	6 1	PLS		
126763	8:09 2 540	29.4	3 1	205		P
267679	9:02364	325	74	PCS		
26/68	9014 80	315	10	PCS		
126771	10:03 5 648	34.1	61	205		
26773	10:15 6 SIP	30.7	5 1	205		
(26776	11:12764	32.1	3 6	265		
126 777	11:29 8 5	13.6	9 1	26-5		
26781	7:10 9 (0	295		PCS		
26782	2:33 10 5	12.70	P	265		
- m	- William		- 1			

DATE	BILLED

1:42 12 5

TOTAL

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION. OUT OF COUNTY? □ YES □ NO OUT OF CITY? □ YES □ NO

TRICK Time



DELIVEDIES

LOAD TICKET

Nº 75270

41 Rocky Top Road Yakima, WA 98908

YAKIMA, WASH.

Bus. (509) 965-3621 • Fax (509) 965-8656

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

We make delivering risk only and accurate damages resulting	ept no resp	e cur onsib	b line at cus ility whatso			ress 4045.3rd A	ntnc ve	
Received by					-	A Acres		
Date 6 14 15	Sold by	,			Pho	ne Home Office		
A. Cured concrete B. Asphaltic mater (does not incluroofing) C. Brick and maso D. Ceramic materi	rials de nry	F. G H I.	. Glass Stainless . Aluminu . Lime Dirt Rock Bldg. Der	ım	P.O. Job	#		
WEIGHT TICKET #	TIME		TRUCK NO.	QUANT	ITY	PRODUCT	UNIT	AMOUNT
Start -5010	7:15	1	5	5		There Time	(M) -	
Stop	12:15	2						-11
		3						
		4						
Start	7:45		GEP	1.2	5 Hz.	TRICK Time		
Stop	9:00	6						
		7						ý.
54Art -Solo	9:00	8	6	3.0	ting.	TRUCK Time		
Stop	12:00	9						
		10						
		11				1		
	1. 2.1	12						
	- 1							
			TOTAL					

DATE BILLED

NOTAX

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

OUT OF COUNTY?

YES NO
OUT OF CITY?

YES NO



Nº 75269

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

risk only and acc	DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for damages resulting from such deliveries.				ne IO Environ ress 404 g. 3rd,	nental ave	
Received by				Phor	ne Home		
Date 6/4 1/5	Sold by				Office		
A. Cured concrete B. Asphaltic mate (does not inclu	rials	G. Alum	ess Steel ninum	P.O.	#		
roofing) C. Brick and maso D. Ceramic materi	nry	H. Lime		Job #	1 3/11/1		
	1	TRUC	м		ed by Anderson	I man I	
WEIGHT TICKET #	TIME	NO.		TITY	PRODUCT	UNIT PRICE	AMOUNT
126806	8:16	15	16:	32	PCS		
126809	8:49	2 Cody	31.0	7	PCS		
126814	9:30	3 5	17.0	6	PCS		
126818	10:28	46	14.0	2	PCS		
126822	11:05	5 5	15.1	8	PCS		
126824	11:52	6 C	15.5	53	PCS		
		7	100	30			
		8	101				
		9					
		10					
	-	11					
		12					
			-				
	1	TOTA	L.				

DATE BILLED

NO TAX

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

OUT OF COUNTY?

YES NO
OUT OF CITY?

YES NO

Rock TICKET



LOAD TICKET

Nº 75271

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for damages resulting from such deliveries.			104 s. 3rd Ave	
Received by Date Sold	ру	Phone	Home Office	
A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonry D. Ceramic materials	E. Glass F. Stainless Steel G. Aluminum H. Lime I. Dirt Rock J. Bldg. Demolition	P.O. # Job # Ti Hauled by	Rolley BAVA Anderson	

			0	Haul	led by Theers or		
WEIGHT TICKET #	TIME		TRUCK NO.	QUANTITY	PRODUCT	UNIT	AMOUNT
126802	7:18	1	5	16.13	1/4 minus		
126807	8:37	2	5	15.82	1/4 minus		141
126812	9:12	3	6	15.79	1/4 minos		
1268159	1:43	4	5	15.60	Myminus		
126820	10'41	5	6	15.03	14 minus		
126823	lla?	6	5	15.19	14 minos		
		7		93.627	5N		
		8					
		9					
		10					
		11					
		12					
			TOTAL				

DATE BILLED

NO TAX

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION. OUT OF COUNTY? ☐YES ☐ NO OUT OF CITY? ☐ YES ☐ NO





No 75303

41 Rocky Top Road Yakima, WA 98908

☐YES ☐ NO

OUT OF CITY?

Bus. (509) 965-3621 • Fax (509) 965-8656

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

We make deliverie risk only and acce damages resulting	pt no resp	e curl	b line at cus ility whatso		Nam Addr	11.11 - 2	menta L ave	1
Received by					Phor	ne Home		
61515	Sold by					Office		
A. Cured concrete B. Asphaltic mater (does not include roofing) C. Brick and mason D. Ceramic materia	de nry	F. G H I.	. Glass Stainless . Aluminu . Lime Dirt Rock Bldg. Der	ım	P.O.	Ta 11 3	1	
WEIGHT TICKET #	TIME		TRUCK NO.	QUAN	TITY	PRODUCT	UNIT PRICE	AMOUNT
126856	10:39	1	54P	33.	97	2" minus		
	12:15	2	5	124	\$	Demo		*
		3	pup	to yo	ds	Brush	- 3	
		4						
		5						
		6					-	
		7					-	
-: (8	20.0	72				
Start	10:30		540	J. 1	J(475)	Truck Time		
Stop	12:15	10						
		11	_				-	
		12					-	
		_						
			TOTAL					

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5%

PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.





Nº 75345

41 Rocky Top Road Yakima, WA 98908

YAKIMA. WASH.

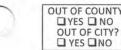
Bus. (509) 965-3621 • Fax (509) 965-8656

etroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for damages resulting from such deliveries.	Name T Address	4045. 3Nd A			
Date Sold by A. Cured concrete B. Asphaltic materials Received by Sold by E. Glass F. Stainless Steel	Phone Phone	Home 1-425-5	582-147		
(does not include roofing) G. Aluminum C. Brick and masonry I. Dirt Rock D. Ceramic materials J. Bldg. Demolitio	Job# ₹	1			
WEIGHT TICKET # TIME TRUCK NO. QI	JANTITY	PRODUCT	UNIT PRICE	AMOUNT	
126908 152 1 (AP 30 126909 Zile 2 949 Zi 126914 1211 3 649 30 26915 1:20 4 949 29 126916 2:24 5 949 29 26918 2:37 549 30 26922 3:38 8 949 Zi 26924 356 9 549 31 76925 (4x1) 19040 2	2.27 2.86 0.46 0.46 0.80 0.50	105 105 105 105 105 1005			
11 30 12 TOTAL	0.12	PCS			

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.





75333

41 Rocky Top Road Yakima, WA 98908

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Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

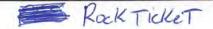
www.andersonrock.com

	risk only and acce	DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for damages resulting from such deliveries.				Address 404 5. 3rd Ave 1-425-582-1479-mile					
	Received by										
	Date 6 19 115	Date Sold by				Phone Home 1-425-591-8223 Office Jake					
	A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonry D. Ceramic materials E. Glass F. Stainless Steel G. Aluminum H. Lime I. Dirt Rock J. Bldg. Demolition				10b# TRolley Barn Hauled by Anderson						
	WEIGHT TICKET #	TIME	TRUCK NO.	QUANT	ITY	PRODUCT	UNIT PRICE	AMOUNT			
	126892	8:01 1	640	30.9	37	PC3-HM					
	126893	8:34 2	940	27,6	3	RS - HM					
	12/0899	9:223	Cop	165	2	PCS-HM					
		4	_		_				-		
		.5		75.	02						
		6									
		7) -			
		8									
		9									
		10	0								
		13	1								
		17	2								
-											
			TOTAL								

DATE BILLED

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

OUT OF COUNTY? ☐YES ☐ NO OUT OF CITY? ☐ YES ☐ NO







Nº 75288

41 Rocky Top Road Yakima, WA 98908

> ☐ YES ☐ NO OUT OF CITY?

☐ YES ☐ NO

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

DELIVERIES We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for	Nam	e IO Environ	utal				
damages resulting from such deliveries.		Name IO Environmental Address 404 s. 3rd Ave 1-425-582-1479-Mike					
Received by	Phor	ne Home (-425	-591-	8223			
Date Sold by		Office Jak					
A. Cured concrete E. Glass B. Asphaltic materials F. Stainless Steel (does not include G. Aluminum	P.O.	4.					
roofing) H. Lime C. Brick and masonry I. Dirt Rock	Job #	TRolley Barn	7				
D. Ceramic materials J. Bldg. Demolition	Haul	ed by Anderson					
WEIGHT TICKET # TIME TRUCK NO. QUA	NTITY	PRODUCT	UNIT	AMOUNT			
126888 653 16HP 32.	70	11/4 minus					
126889 7:20 2 940 33.	61	144 minus					
126894 8:19 3 CAP 31.	23	144 minus					
126897 8:55 4 GAP 32.	42	1 keminus					
26901 9:40 Cap 28	·w	11400					
26902 9:30 9:036	1.10	1140					
26905 1059 1 Cap 31.	74	14minus		,			
26906 Wal 8940 32.	52	144 mins					
26912 2:5 964 33.	32	Maminos					
126911 12:20 10 GAP 33.	71	1'ly minus					
11 323	3.35						
12							
TOTAL							

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5%

PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF

INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

Trick Time



LOAD TICKET

Nº 75332

41 Rocky Top Road Yakima, WA 98908

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

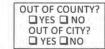
Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

DELIVERIES FINUIRO MENTAL Name We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for Address damages resulting from such deliveries. Received by Home 1-425-591-8223 Phone Date Sold by 619 Office JAKE A. Cured concrete E. Glass 040-058-02 B. Asphaltic materials F. Stainless Steel (does not include G. Aluminum roofing) H. Lime C. Brick and masonry I. Dirt Rock D. Ceramic materials J. Bldg. Demolition Hauled by

WEIGHT TICKET #	TIME	TRUCK NO.	QUANTITY	PRODUCT	UNIT PRICE	AMOUNT
Start Stop	7:00	164P	9.0 Hes.	Truck Time	1200	
Stop	4:00	2				1.0
		3				
		4				-
		5				
Start	7:15	6 940	8.5 HRS	Truck Time	12000	
Stop	3:45	7				
		8				
		9				
Start	1:30	10 Sip	25 HRS.	TRICK Time	120	-
Start	4:00	11				
		12				
		TOTAL				

DATE BILLED

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.



PCS - gas & diese @ 300.92

Enci Rojhental



damages resulting from such deliveries.

LOAD TICKET

Name

Address

Vº 75354

41 Rocky Top Road Yakima, WA 98908

> ☐ YES ☐ NO OUT OF CITY?

☐ YES ☐ NO

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

DELIVERIES

We make deliveries inside the curb line at customer's risk only and accept no responsibility whatsoever for

Bus. (509) 965-3621 • Fax (509) 965-8656 www.andersonrock.com

Date (01/5)	Sold by			Office					
A. Cured concrete B. Asphaltic materials (does not include roofing) C. Brick and masonny		E. Glass F. Stainless Steel G. Aluminum H. Lime I. Dirt Rock		P.O.# 040-058-02 Job# TRulley BANN					
D. Ceramic materials J. Bldg. Demolition				Haule	ed by Anderson				
WEIGHT TICKET # TIME TRUCK NO.		QUANT	TTY	PRODUCT	UNIT PRICE	AMOUN			
126930	7:42	1 6tp	28.	91	DCS				
126933	7:55	2 GHP	32.3	30	PCS				
126935	8:11	3-TUIC	27.0	8	pes				
126944	9:03	4 940	30.4	10	PCS		-		
126946	9:16	5 Cosp	30.3		PCS	_11 11.2.2			
126951	9:48	6. TUIG	13.9	53	PCS				
		7				= ===			
		8	103	(ac)					
		9							
		10							
		11							
		12							
		TOTAL				- 1			

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5%

PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF

INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.



Nº 75397

41 Rocky Top Road Yakima, WA 98908

Bus. (509) 965-3621 • Fax (509) 965-8656

Petroleum Contaminated Soils Site - Topsoil - Shale - Crushed Rock

www.andersonrock.com

We make deliverierisk only and accedamages resulting	ept no respo	curb line at ensibility what		Name FO Environmental Address 4043. 3rd Auc.						
Received by Date Sold by					Phone Home 1-425-582-1479					
Date 1/2/6					Office					
A. Cured concrete B. Asphaltic mater (does not include		E. Glass F. Stainle G. Alumi		P.O.	P.O.# 040-058-02					
roofing) C. Brick and mason D. Ceramic materi	nry	H. Lime I. Dirt Ro		P.O.# 040-058-02 Job# TRolley Barn						
WEIGHT TICKET #	TIME	TRUCK NO.			PRODUCT	AMOUNT				
127053	7:13	1 6×p	32.	14	14 minus	PRICE				
1		2								
		3				1				
		4								
11		5								
		6								
		7								
		8								
		9								
		10								
		11				-11-12				
		12								

DATE BILLED

CUSTOMER AGREES TO PAY (a) A LATE CHARGE OF 1.5% PER MONTH IF ACCOUNT IS NOT PAID WITHIN 10 DAYS OF INVOICE, AND (b) ATTORNEY'S FEE INCURRED IN COLLECTION.

TOTAL

OUT OF COUNTY? YES NO OUT OF CITY?

APPENDIX D X-RAY FLUORESCENCE DATA



Yakima Valley Transportation Co. Trolley Barn Site XRF Data - June 2015

Washington Dept. of Ecology Facility Site No. 9688850 Cleanup Site No. 2190 City of Yakima Yakima, Washington

MTCA Met	hod A CUL	20 mg/kg		250 mg/kg		2 mg/kg		2 mg/kg	
Sample ID - Depth (in.)	Date	As (mg/kg)	As +/-	Pb (mg/kg)	Pb +/-	Cd (mg/kg)	Cd +/-	Hg (mg/kg)	Hg +/-
C16-6	6/4/2015	<lod< td=""><td>8</td><td><lod< td=""><td>11</td><td><lod< td=""><td>49</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<></td></lod<>	8	<lod< td=""><td>11</td><td><lod< td=""><td>49</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	11	<lod< td=""><td>49</td><td><lod< td=""><td>14</td></lod<></td></lod<>	49	<lod< td=""><td>14</td></lod<>	14
C17-6	6/4/2015	12	4	22	4	<lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<>	49	<lod< td=""><td>16</td></lod<>	16
C18-6	6/4/2015	<lod< td=""><td>10</td><td>29</td><td>5</td><td><lod< td=""><td>48</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	10	29	5	<lod< td=""><td>48</td><td><lod< td=""><td>14</td></lod<></td></lod<>	48	<lod< td=""><td>14</td></lod<>	14
C19-6	6/4/2015	<lod< td=""><td>9</td><td>12</td><td>4</td><td><lod< td=""><td>48</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	9	12	4	<lod< td=""><td>48</td><td><lod< td=""><td>14</td></lod<></td></lod<>	48	<lod< td=""><td>14</td></lod<>	14
C20-6	6/4/2015	<lod< td=""><td>16</td><td>113</td><td>7</td><td><lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	16	113	7	<lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<>	48	<lod< td=""><td>16</td></lod<>	16
C21-6	6/4/2015	<lod< td=""><td>16</td><td>106</td><td>7</td><td><lod< td=""><td>50</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	16	106	7	<lod< td=""><td>50</td><td><lod< td=""><td>16</td></lod<></td></lod<>	50	<lod< td=""><td>16</td></lod<>	16
C22-6	6/4/2015	11	3	<lod< td=""><td>12</td><td><lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	12	<lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<>	49	<lod< td=""><td>15</td></lod<>	15
C23-6	6/4/2015	<lod< td=""><td>15</td><td>71</td><td>6</td><td><lod< td=""><td>52</td><td><lod< td=""><td>17</td></lod<></td></lod<></td></lod<>	15	71	6	<lod< td=""><td>52</td><td><lod< td=""><td>17</td></lod<></td></lod<>	52	<lod< td=""><td>17</td></lod<>	17
C24-6	6/4/2015	<lod< td=""><td>9</td><td><lod< td=""><td>12</td><td><lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<></td></lod<>	9	<lod< td=""><td>12</td><td><lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	12	<lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<>	47	<lod< td=""><td>15</td></lod<>	15
C25-6	6/4/2015	14	3	15	4	<lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<>	48	<lod< td=""><td>15</td></lod<>	15
C26-6	6/4/2015	14	4	60	5	<lod< td=""><td>46</td><td><lod< td=""><td>15</td></lod<></td></lod<>	46	<lod< td=""><td>15</td></lod<>	15
C27-6	6/4/2015	<lod< td=""><td>12</td><td>32</td><td>5</td><td><lod< td=""><td>49</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	12	32	5	<lod< td=""><td>49</td><td><lod< td=""><td>18</td></lod<></td></lod<>	49	<lod< td=""><td>18</td></lod<>	18
C28-6	6/4/2015	<lod< td=""><td>9</td><td>15</td><td>4</td><td><lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	9	15	4	<lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<>	50	<lod< td=""><td>15</td></lod<>	15
C29-6	6/4/2015	<lod< td=""><td>9</td><td>13</td><td>4</td><td><lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	9	13	4	<lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<>	47	<lod< td=""><td>15</td></lod<>	15
CH2-8	6/5/2015	22	5	111	7	<lod< td=""><td>48</td><td><lod< td=""><td>14</td></lod<></td></lod<>	48	<lod< td=""><td>14</td></lod<>	14
CH3-8	6/5/2015	76	14	974	21	<lod< td=""><td>49</td><td><lod< td=""><td>20</td></lod<></td></lod<>	49	<lod< td=""><td>20</td></lod<>	20
CH4-8	6/5/2015	44	11	547	15	<lod< td=""><td>50</td><td><lod< td=""><td>19</td></lod<></td></lod<>	50	<lod< td=""><td>19</td></lod<>	19
CH5-8	6/5/2015	54	13	647	17	<lod< td=""><td>52</td><td><lod< td=""><td>18</td></lod<></td></lod<>	52	<lod< td=""><td>18</td></lod<>	18
CH6-8	6/5/2015	36	5	62	6	<lod< td=""><td>49</td><td><lod< td=""><td>17</td></lod<></td></lod<>	49	<lod< td=""><td>17</td></lod<>	17
CH7-8	6/5/2015	52	13	746	18	<lod< td=""><td>50</td><td><lod< td=""><td>19</td></lod<></td></lod<>	50	<lod< td=""><td>19</td></lod<>	19
CH8-8	6/5/2015	35	5	56	6	<lod< td=""><td>53</td><td><lod< td=""><td>17</td></lod<></td></lod<>	53	<lod< td=""><td>17</td></lod<>	17
CH9-8	6/5/2015	31	4	21	4	<lod< td=""><td>48</td><td><lod< td=""><td>13</td></lod<></td></lod<>	48	<lod< td=""><td>13</td></lod<>	13
CH10-12	6/5/2015	44	4	28	4	<lod< td=""><td>47</td><td><lod< td=""><td>15</td></lod<></td></lod<>	47	<lod< td=""><td>15</td></lod<>	15
CH11-12	6/5/2015	<lod< td=""><td>19</td><td>168</td><td>8</td><td><lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	19	168	8	<lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<>	49	<lod< td=""><td>16</td></lod<>	16
CH13-12	6/5/2015	54	8	248	10	<lod< td=""><td>51</td><td><lod< td=""><td>18</td></lod<></td></lod<>	51	<lod< td=""><td>18</td></lod<>	18
CH15-12	6/5/2015	53	9	332	11	<lod< td=""><td>49</td><td><lod< td=""><td>18</td></lod<></td></lod<>	49	<lod< td=""><td>18</td></lod<>	18
CH16-12	6/5/2015	<lod< td=""><td>8</td><td><lod< td=""><td>11</td><td><lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<></td></lod<>	8	<lod< td=""><td>11</td><td><lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	11	<lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<>	49	<lod< td=""><td>15</td></lod<>	15
CH17-12	6/5/2015	46	7	170	9	<lod< td=""><td>52</td><td><lod< td=""><td>16</td></lod<></td></lod<>	52	<lod< td=""><td>16</td></lod<>	16
CH18-12	6/5/2015	27	8	299	11	<lod< td=""><td>49</td><td><lod< td=""><td>15</td></lod<></td></lod<>	49	<lod< td=""><td>15</td></lod<>	15

NOTES:

< LOD = less than level of detection

Shaded values exceed MTCA Method A Cleanup Levels (CULs)

Bold values may exceed MTCA Method A CULs based on tolerance

https://fortress.wa.gov/ecy/clarc/FocusSheets/Soil%20Methods%20B%20and%20A%20unrestricted.pdf

mg/kg = milligrams per kilogram

± = sampling device tolerance

Yakima Valley Transportation Co. Trolley Barn Site XRF Data - June 2015

Washington Dept. of Ecology Facility Site No. 9688850 Cleanup Site No. 2190 City of Yakima Yakima, Washington

MTCA Met	hod A CUL	20 mg/kg		250 mg/kg		2 mg/kg		2 mg/kg	
Sample ID -	<u>.</u>	As		DI (//)	D	Cd	o	Hg	,
Depth (in.)	Date	(mg/kg)	As +/-	Pb (mg/kg)	Pb +/-	(mg/kg)	Cd +/-	(mg/kg)	Hg +/-
CH19-12	6/5/2015	<lod< td=""><td>10</td><td>22</td><td>4</td><td><lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	10	22	4	<lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<>	49	<lod< td=""><td>16</td></lod<>	16
CH20-12	6/5/2015	45	7	159	8	<lod< td=""><td>52</td><td><lod< td=""><td>17</td></lod<></td></lod<>	52	<lod< td=""><td>17</td></lod<>	17
CH21-12	6/5/2015	54	4	<lod< td=""><td>11</td><td><lod< td=""><td>47</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	11	<lod< td=""><td>47</td><td><lod< td=""><td>16</td></lod<></td></lod<>	47	<lod< td=""><td>16</td></lod<>	16
CH22-12	6/5/2015	<lod< td=""><td>47</td><td>1286</td><td>24</td><td><lod< td=""><td>48</td><td><lod< td=""><td>20</td></lod<></td></lod<></td></lod<>	47	1286	24	<lod< td=""><td>48</td><td><lod< td=""><td>20</td></lod<></td></lod<>	48	<lod< td=""><td>20</td></lod<>	20
CH23-12	6/5/2015	<lod< td=""><td>10</td><td>14</td><td>4</td><td><lod< td=""><td>51</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	10	14	4	<lod< td=""><td>51</td><td><lod< td=""><td>15</td></lod<></td></lod<>	51	<lod< td=""><td>15</td></lod<>	15
CH24-12	6/5/2015	<lod< td=""><td>10</td><td>29</td><td>4</td><td><lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	10	29	4	<lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<>	48	<lod< td=""><td>15</td></lod<>	15
CH25-12	6/5/2015	<lod< td=""><td>11</td><td>29</td><td>4</td><td><lod< td=""><td>46</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	11	29	4	<lod< td=""><td>46</td><td><lod< td=""><td>14</td></lod<></td></lod<>	46	<lod< td=""><td>14</td></lod<>	14
CH27-12	6/5/2015	117	17	1304	26	<lod< td=""><td>50</td><td><lod< td=""><td>21</td></lod<></td></lod<>	50	<lod< td=""><td>21</td></lod<>	21
CN2-6	6/11/2015	<lod< td=""><td>10</td><td>26</td><td>4</td><td><lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	10	26	4	<lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<>	48	<lod< td=""><td>15</td></lod<>	15
CN3-6	6/11/2015	<lod< td=""><td>12</td><td>37</td><td>5</td><td><lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	12	37	5	<lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<>	50	<lod< td=""><td>15</td></lod<>	15
CN4-4	6/11/2015	<lod< td=""><td>20</td><td>190</td><td>9</td><td><lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	20	190	9	<lod< td=""><td>48</td><td><lod< td=""><td>15</td></lod<></td></lod<>	48	<lod< td=""><td>15</td></lod<>	15
CN8-4	6/11/2015	<lod< td=""><td>12</td><td>39</td><td>5</td><td><lod< td=""><td>51</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	12	39	5	<lod< td=""><td>51</td><td><lod< td=""><td>14</td></lod<></td></lod<>	51	<lod< td=""><td>14</td></lod<>	14
CN9-6	6/11/2015	<lod< td=""><td>32</td><td>490</td><td>15</td><td><lod< td=""><td>52</td><td><lod< td=""><td>20</td></lod<></td></lod<></td></lod<>	32	490	15	<lod< td=""><td>52</td><td><lod< td=""><td>20</td></lod<></td></lod<>	52	<lod< td=""><td>20</td></lod<>	20
CN10-6	6/11/2015	<lod< td=""><td>14</td><td>80</td><td>6</td><td><lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<></td></lod<>	14	80	6	<lod< td=""><td>50</td><td><lod< td=""><td>15</td></lod<></td></lod<>	50	<lod< td=""><td>15</td></lod<>	15
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CN12-6	6/11/2015	<lod< td=""><td>17</td><td>137</td><td>7</td><td><lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	17	137	7	<lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<>	48	<lod< td=""><td>16</td></lod<>	16
CN13-4	6/11/2015	<lod< td=""><td>9</td><td>16</td><td>4</td><td><lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	9	16	4	<lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<>	48	<lod< td=""><td>16</td></lod<>	16
CN14-4	6/11/2015	<lod< td=""><td>33</td><td>543</td><td>15</td><td><lod< td=""><td>52</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	33	543	15	<lod< td=""><td>52</td><td><lod< td=""><td>18</td></lod<></td></lod<>	52	<lod< td=""><td>18</td></lod<>	18
CN15-4	6/11/2015	<lod< td=""><td>10</td><td>24</td><td>4</td><td><lod< td=""><td>49</td><td><lod< td=""><td>14</td></lod<></td></lod<></td></lod<>	10	24	4	<lod< td=""><td>49</td><td><lod< td=""><td>14</td></lod<></td></lod<>	49	<lod< td=""><td>14</td></lod<>	14
CN16-4	6/11/2015	17	6	118	7	<lod< td=""><td>48</td><td><lod< td=""><td>16</td></lod<></td></lod<>	48	<lod< td=""><td>16</td></lod<>	16
CN17-6	6/11/2015	<lod< td=""><td>12</td><td>44</td><td>5</td><td><lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<></td></lod<>	12	44	5	<lod< td=""><td>49</td><td><lod< td=""><td>16</td></lod<></td></lod<>	49	<lod< td=""><td>16</td></lod<>	16
CN21-4	6/11/2015	<lod< td=""><td>24</td><td>173</td><td>11</td><td><lod< td=""><td>63</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	24	173	11	<lod< td=""><td>63</td><td><lod< td=""><td>18</td></lod<></td></lod<>	63	<lod< td=""><td>18</td></lod<>	18
CN22-4	6/11/2015	<lod< td=""><td>25</td><td>328</td><td>11</td><td><lod< td=""><td>48</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	25	328	11	<lod< td=""><td>48</td><td><lod< td=""><td>18</td></lod<></td></lod<>	48	<lod< td=""><td>18</td></lod<>	18
CN23-4	6/11/2015	<lod< td=""><td>17</td><td>103</td><td>7</td><td><lod< td=""><td>50</td><td><lod< td=""><td>17</td></lod<></td></lod<></td></lod<>	17	103	7	<lod< td=""><td>50</td><td><lod< td=""><td>17</td></lod<></td></lod<>	50	<lod< td=""><td>17</td></lod<>	17
CN24-4	6/11/2015	<lod< td=""><td>22</td><td>205</td><td>9</td><td><lod< td=""><td>51</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	22	205	9	<lod< td=""><td>51</td><td><lod< td=""><td>18</td></lod<></td></lod<>	51	<lod< td=""><td>18</td></lod<>	18
CN25-4	6/11/2015	71	18	1172	27	<lod< td=""><td>56</td><td><lod< td=""><td>23</td></lod<></td></lod<>	56	<lod< td=""><td>23</td></lod<>	23
CN26-4	6/11/2015	<lod< td=""><td>39</td><td>519</td><td>18</td><td><lod< td=""><td>62</td><td><lod< td=""><td>25</td></lod<></td></lod<></td></lod<>	39	519	18	<lod< td=""><td>62</td><td><lod< td=""><td>25</td></lod<></td></lod<>	62	<lod< td=""><td>25</td></lod<>	25
CN27-4	6/11/2015	<lod< td=""><td>20</td><td>119</td><td>9</td><td><lod< td=""><td>59</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	20	119	9	<lod< td=""><td>59</td><td><lod< td=""><td>18</td></lod<></td></lod<>	59	<lod< td=""><td>18</td></lod<>	18
CN28-4	6/11/2015	<lod< td=""><td>21</td><td>165</td><td>9</td><td><lod< td=""><td>54</td><td><lod< td=""><td>18</td></lod<></td></lod<></td></lod<>	21	165	9	<lod< td=""><td>54</td><td><lod< td=""><td>18</td></lod<></td></lod<>	54	<lod< td=""><td>18</td></lod<>	18

NOTES:

< LOD = less than level of detection

Shaded values exceed MTCA Method A Cleanup Levels (CULs)

Bold values may exceed MTCA Method A CULs based on tolerance

https://fortress.wa.gov/ecy/clarc/FocusSheets/Soil%20Methods%20B%20and%20A%20unrestricted.pdf

mg/kg = milligrams per kilogram

± = sampling device tolerance

APPENDIX E AS-BUILT SURVEY





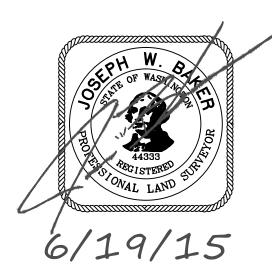


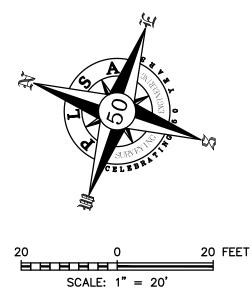
SURVEY DATUM DERIVED FROM GPS OBSERVATION USING THE WASHINGTON STATE REFERENCE NETWORK.

THE SURVEY DATUM FOR THIS SURVEY IS U.S. STATE PLANE 1983, NAD 1983, GEOID 12A, ZONE WASHINGTON NORTH 4601. ELEVATION DATUM IS NAVD 88.

A PORTION OF THIS SURVEY WAS PERFORMED WITH LEICA GS14 WITH THE WASHINGTON STATE REFERENCE NETWORK (WSRN) USING REAL TIME KINEMATIC (RTK) PROCEDURES.

A PORTION OF THIS SURVEY WAS PERFORMED WITH LEICA MS50 USING FIELD TRAVERSE PROCEDURES.





D	2	Λ
	3	A

ENGINEERING—SURVEYING—PLANNING 1120 WEST LINCOLN AVENUE YAKIMA, WASHINGTON 98902 (509) 575—6990

 TOPOGRAPHIC
 SURVEY
 DRAWN BY:
 JOE

 OF PARCEL NO. 181324 - 44465
 DATE: 6/18/2015

 — PREPARED FOR
 JOB NO. 15149

IO ENVIRONMENTAL

SE 1/4, SE 1/4, SEC. 24, T-13 N, R-18 E,WM 1 0

APPENDIX F

PRELIMINARY SOURCE EVALUATION AND CLEAN SOIL STATEMENT





May 5, 2015

RE: Tiger Oil 24th & Nob Hill

To Whom It May Concern:

We here at Anderson Rock & Demolition Pits, believe our products to be free of any contaminants of any kind.

Thank you

Wendy McConnell - Office Manager

Anderson Rock & Demolition Pits



Lynn Peterson Secretary of Transportation State Materials Laboratory PO Box 47365 Olympia, WA 98504-7365 360-709-5400 / FAX: 360-709-5585 TTY: 1-800-833-6388 www.wsdot.wa.gov

December 4, 2013

Ron Anderson Anderson Rock & Demolition Pits 41 Rocky Top Road Yakima, WA 98908 (509) 965-3621

Re: Preliminary Source Evaluation, ASA2013125

Dear Mr. Anderson:

This letter is to inform you that preliminary testing for Mineral Aggregate applications has been completed on the sample taken from the site designated as QS-E-344, also known as Anderson Pit, in Yakima County, Washington. The sample tested passed the requirements for the Riprap, Quarry Spalls and Rock for Rock Wall applications as indicated in Section 9-13 of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction (2012).

The enclosed Aggregate Source Approval (ASA) Report lists specific approved uses for the aggregate from this site. The Aggregate Source Approval database is available on the Internet at: http://www.wsdot.wa.gov/biz/mats/asa/asaSearch.cfm

The reports and all backup data will remain on file at the WSDOT Materials Laboratory. If there are any questions concerning this matter, please contact Garrett Webster at (360) 709-5442.

Sincerely,

Materials Quality Assurance Engineer

RM: gsw Enclosure

cc via e-mail: K. Williams - Construction Materials Engineer

B. Briggs - Assistant Construction Materials Engineer - Admin

M. Polodna - Structural Materials Engineer

P. Gonseth - South Central Region Materials Engineer R. Anderson - Anderson Rock & Demolition Pits

(andersonrock1@live.com)



WSDOT MATERIALS LAB

12/04/2013

Aggregate Source Approval Report

Owner: Anderson Rock and Demolition Pits

Aggregate Source: QS-E-344

Lessee:

Located in: SW1/4 NW1/4 Section 10 T13N R17E

Known as: Anderson Pit

County: Yakima

Remarks:

Results for Riprap, Quarry Spalls and Rock for Rock Wall: Bulk Sp. G (SSD): 2.855, Bulk Sp G: 2.817, App Sp G: 2.927, Abs(%): 1.33, LA: 16, Deg: 75. Expires 12/04/2014 (gsw)

Pit Run Materials:

At the discretion of the Project Engineer, preliminary samples for Gradation and Sand Equivalent tests may be performed to determine if the

material does in fact meet the specification for the intended use:

Backfill for Rock Wall

Backfill for Sand Drains

Blending Sand

Bedding Material for Thermoplastic Pipe Gravel Backfill for Drains and Drywells

Gravel Backfill for Foundation Class B

Gravel Borrow

Gravel Backfill for Pipe Zone Bedding Sand Drainage Blanket

Bedding Material for Rigid Pipe

Foundation Material for Classes A, B or C

Gravel Backfill for Walls Select or Common Borrow

No Preliminary Tests are required to be performed by the State Materials Lab

Gravel Base:

Test Date:

Expiration Date:

Drainage:

R Value:

Swell Pressure:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of GRAVEL BASE is required prior to use.

Test Date: 04/18/2011

Mineral Agg. and Surfacing:

Apparent Sp. G.:

Maintenance Rock

Bulk Sp. G. (SSD): 2.882

Expiration Date: 04/18/2016

Absorption: Deg: 76

LA: 17

Bulk Sp. G .:

Currently approved as a source of aggregate for:

BST Crushed Cover Stone

BST Crushed Screenings

HMA Wearing Course

Crushed Surfacing Base Course

Crushed Surfacing Key Stone

Crushed Surfacing Top Course

Gravel Backfill for Foundation Class A

HMA Other Courses Permeable Ballast

Acceptance tests need to be performed as necessary.

Portland Cement Concrete Aggregates:

Test Date:

Expiration Date:

ASR - 14 Day:

ASR - One Year: FCA Organics:

CCA Absorption: FCA Sp. G:

CCA Sp.G: LA:

FCA Absorption:

Petrographic Analysis:

Morter Strength:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of AGGREGATES for PCC is required prior to use.

Riprap and Quarry Spalls:

Test Date:

Expiration Date:

Please see Remarks for Riprap and Quarry Spalls results.

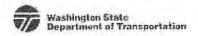
Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of RIP RAP AND QUARRY SPALLS is required prior to use.

Distribution: Physical Testing_

Region Materials, Region Operations_

Aggregate Source Approval System

Project Engineer_



WSDOT MATERIALS LAB

12/22/2014

Aggregate Source Approval Report

Owner: Anderson Rock and Demolition Pits

Lessee:

Located in: SW1/4 NW1/4 Section 10 T13N R17E

Aggregate Source: QS-E-344

Known as: Anderson Pit

County: Yakima

Results for Riprap, Quarry Spalls and Rock for Rock Wall: Bulk Sp. G (SSD): 2.842 Bulk Sp G:2.800, App Sp G: 2.923, Abs(%): 1.50, LA: 16, Deg: 72. Expires 12/22/2015 (MEJ)

At the discretion of the Project Engineer, preliminary samples for Gradation and Sand Equivalent tests may be performed to determine if the

material does in fact meet the specification for the intended use:

Backfill for Rock Wall

Backfill for Sand Drains

Bedding Material for Rigid Pipe

Bedding Material for Thermoplastic Pipe

Foundation Material for Classes A, B or C Gravel Backfill for Pipe Zone Bedding

Gravel Backfill for Drains and Drywells

Gravel Backfill for Foundation Class B

Sand Drainage Blanket

Gravel Backfill for Walls

Select or Common Borrow

No Preliminary Tests are required to be performed by the State Materials Lab

Gravel Base:

Gravel Borrow

Test Date:

Expiration Date:

Drainage:

R Value:

Swell Pressure:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of GRAVEL BASE is required prior to use.

Mineral Agg. and Surfacing:

Test Date: 04/18/2011

Expiration Date: 04/18/2016

Absorption:

Apparent Sp. G.:

Bulk Sp. G. (SSD): 2.882

Bulk So. G.:

Deg: 76

LA: 17

Currently approved as a source of aggregate for:

Ballast

BST Crushed Cover Stone

BST Crushed Screenings

Crushed Surfacing Base Course

Crushed Surfacing Key Stone

Crushed Surfacing Top Course

Gravel Backfill for Foundation Class A

HMA Other Courses

HMA Wearing Course

Maintenance Rock

Permeable Ballast

Acceptance tests need to be performed as necessary.

Portland Cement Concrete Aggregates:

Test Date:

Expiration Date:

ASR - 14 Day:

ASR - One Year. FCA Organics:

CCA Absorption: FCA Sp. G:

CCA Sp.G:

FCA Absorption: Mortar Strength:

Petrographic Analysis:

LA:

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of AGGREGATES for PCC is required prior to use.

Riprap and Quarry Spalls:

Test Date:

Expiration Date:

Please see Remarks for Riprap and Quarry Spalls results.

Contact the Regional Materials Office to request PRELIMINARY SAMPLES be acquired. Evaluation and approval of this site as a source of RIP RAP AND QUARRY SPALLS is required prior to use.

Distribution: Physical Testing_

Project Engineer Region Operations Region Materials

Aggregate Source Approval System

APPENDIX G DRUM ANALYTICAL DATA





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane 11922 East 1st. Avenue Spokane, WA 99206 Tel: (509)924-9200

TestAmerica Job ID: SXH0089

Client Project/Site: 0504-101-01

Client Project Description: Trolley Barn

For:

Geo Engineers - Spokane 523 East Second Ave. Spokane, WA 99202

Attn: Scott Lathen

danau trington

Authorized for release by: 9/2/2014 4:30:30 PM

Randee Arrington, Project Manager (509)924-9200

Randee.Arrington@testamericainc.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

TestAmerica Job ID: SXH0089

Table of Contents

Cover Page	1
Table of Contents	
Sample Summary	3
Definitions	4
Client Sample Results	
QC Sample Results	32
Chronicle	
Certification Summary	53
Method Summary	
Chain of Custody	55

4

5

0

8

9

Sample Summary

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

SXH0089-28

HWA-MW1-Composite

Tes

08/12/14 14:45

stAmerica Job ID: SXH0089	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SXH0089-02	GEI-MW1 (12.5-13.5')	Soil	08/12/14 14:45	08/14/14 10:00
SXH0089-04	GEI-MW2 (12-13')	Soil	08/13/14 11:10	08/14/14 10:00
SXH0089-06	GEI-MW3 (12-13')	Soil	08/12/14 08:30	08/14/14 10:00
SXH0089-07	GEI-B1 (2-3')	Soil	08/11/14 15:10	08/14/14 10:00
SXH0089-08	GEI-B1 (12-13')	Soil	08/11/14 15:40	08/14/14 10:00
SXH0089-10	GEI-B2 (13-14')	Soil	08/11/14 12:20	08/14/14 10:00
SXH0089-12	GEI-B3 (7-8')	Soil	08/11/14 10:55	08/14/14 10:00
SXH0089-13	GEI-B4 (2-3')	Soil	08/11/14 16:20	08/14/14 10:00
SXH0089-14	GEI-B4 (7-8')	Soil	08/11/14 16:10	08/14/14 10:00
SXH0089-15	GEI-B5 (2-3')	Soil	08/11/14 10:00	08/14/14 10:00
SXH0089-16	GEI-B5 (7-8')	Soil	08/11/14 10:10	08/14/14 10:00
SXH0089-17	GEI-B6 (2-3')	Soil	08/11/14 14:05	08/14/14 10:00
SXH0089-19	GEI-B6 (13-14')	Soil	08/11/14 14:25	08/14/14 10:00
SXH0089-21	GEI-B7 (13-14')	Soil	08/11/14 08:45	08/14/14 10:00
SXH0089-23	GEI-B8 (14-15')	Soil	08/11/14 12:15	08/14/14 10:00
SXH0089-25	GEI-B9 (13-14')	Soil	08/11/14 14:10	08/14/14 10:00
SXH0089-26	Duplicate 1	Soil	08/11/14 08:00	08/14/14 10:00
SXH0089-27	Duplicate 2	Soil	08/11/14 08:00	08/14/14 10:00

Soil

08/14/14 10:00

Definitions/Glossary

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

TestAmerica Job ID: SXH0089

Qualifiers

Semivolatiles

Qualifier	Qualifier Description
R2	The RPD exceeded the acceptance limit.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
RL1	Reporting limit raised due to sample matrix effects.
Fuels	

Fuels

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
Q6	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
Metals	

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
RL3	Reporting limit raised due to high concentrations of non-target analytes.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

Client Sample ID: GEI-MW1 (12.5-13.5')

Date Collected: 08/12/14 14:45

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-02

Matrix: Soil Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0627		mg/kg dry	\	08/15/14 08:49	08/15/14 11:14	1.00
Hexane	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:14	1.00
Benzene	ND		0.0188		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:14	1.00
1,2-Dichloroethane (EDC)	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:14	1.00
Trichloroethene	ND		0.0313		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:14	1.00
Toluene	ND		0.125		mg/kg dry	☼	08/15/14 08:49	08/15/14 11:14	1.00
Tetrachloroethene	ND		0.0501		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:14	1.00
Ethylbenzene	ND		0.125		mg/kg dry	☼	08/15/14 08:49	08/15/14 11:14	1.00
m,p-Xylene	ND		0.501		mg/kg dry	☼	08/15/14 08:49	08/15/14 11:14	1.00
o-Xylene	ND		0.251		mg/kg dry	\$	08/15/14 08:49	08/15/14 11:14	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.5		80 - 120				08/15/14 08:49	08/15/14 11:14	1.00
1,2-dichloroethane-d4	97.7		74.7 - 120				08/15/14 08:49	08/15/14 11:14	1.00
Toluene-d8	103		78.5 - 125				08/15/14 08:49	08/15/14 11:14	1.00
4-bromofluorobenzene	100		69.8 - 140				08/15/14 08:49	08/15/14 11:14	1.00
- Method: EPA 8011 - EDB by E	EPA Method 8011								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.842		ug/kg dry	₩	08/15/14 10:04	08/15/14 13:26	1.00
1,2-Dibromo-3-chloropropane	ND		0.842		ua/ka drv	₩	08/15/14 10:04	08/15/14 13:26	1.00

Wethod: EPA 6011 - EDB by EPA II	vietnoa 8011	noa sutt					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND ND	0.842	ug/kg dry	₩	08/15/14 10:04	08/15/14 13:26	1.00
1,2-Dibromo-3-chloropropane	ND	0.842	ug/kg dry	₽	08/15/14 10:04	08/15/14 13:26	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		8.68		ug/kg dry	<u> </u>	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1221	ND		8.68		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1232	ND		8.68		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1242	ND		8.68		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1248	ND		8.68		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1254	ND		8.68		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1260	ND		8.68		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:17	1.00
PCB-1268	ND		8.68		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:17	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	104		46.2 - 210				08/19/14 08:36	08/19/14 16:17	1.00
Decachlorobiphenyl	118		65.6 - 186				08/19/14 08:36	08/19/14 16:17	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0195		mg/kg dry	\	08/21/14 08:39	08/21/14 17:58	1.00
2-Methylnaphthalene	ND		0.0195		mg/kg dry	₩	08/21/14 08:39	08/21/14 17:58	1.00
1-Methylnaphthalene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Acenaphthylene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Acenaphthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Fluorene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Phenanthrene	ND		0.0195		mg/kg dry	\$	08/21/14 08:39	08/21/14 17:58	1.00
Anthracene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Fluoranthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Pyrene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Benzo (a) anthracene	ND		0.0195		mg/kg dry	₩	08/21/14 08:39	08/21/14 17:58	1.00

2

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Client Sample ID: GEI-MW1 (12.5-13.5')

Date Collected: 08/12/14 14:45 Date Received: 08/14/14 10:00

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-02

Matrix: Soil

Percent Solids: 96.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0195		mg/kg dry	₩	08/21/14 08:39	08/21/14 17:58	1.00
Benzo (b) fluoranthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Benzo (k) fluoranthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Benzo (a) pyrene	ND		0.0195		mg/kg dry	₩	08/21/14 08:39	08/21/14 17:58	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Dibenzo (a,h) anthracene	ND		0.0117		mg/kg dry	₩	08/21/14 08:39	08/21/14 17:58	1.00
Benzo (ghi) perylene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 17:58	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84.4		36.3 - 152				08/21/14 08:39	08/21/14 17:58	1.00
2-FBP	89.2		30.2 - 135				08/21/14 08:39	08/21/14 17:58	1.00
p-Terphenyl-d14	117		65.1 - 134				08/21/14 08:39	08/21/14 17:58	1.00

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		41	mg/kg d	ry 😇	08/15/14 11:27	08/15/14 21:07	1.0
Diesel Range Hydrocarbons	ND		100	mg/kg d	ry 🌣	08/15/14 11:27	08/15/14 21:07	1.0
Heavy Oil Range Hydrocarbons	ND		100	mg/kg d	ry 🌣	08/15/14 11:27	08/15/14 21:07	1.0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-BFB (FID)	92.3		50 - 150			08/15/14 11:27	08/15/14 21:07	1.0
2-FBP	93.4		50 - 150			08/15/14 11:27	08/15/14 21:07	1.0
2101								

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.43		2.53		mg/kg dry	₩	08/18/14 09:11	08/27/14 17:37	2.00
Cadmium	ND	RL3	0.404		mg/kg dry	₽	08/18/14 09:11	08/27/14 17:37	2.00
Chromium	17.1		1.01		mg/kg dry	₽	08/18/14 09:11	08/27/14 17:37	2.00
Lead	4.16		2.53		mg/kg dry	₽	08/18/14 09:11	08/27/14 17:37	2.00

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Serie	es Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	\$	08/28/14 07:10	08/28/14 15:15	1.00

Client Sample ID: GEI-MW2 (12-13')

Date Collected: 08/13/14 11:10

Lab Sample ID: SXH0089-04

Matrix: Soil

Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND ND	0.0528		mg/kg dry	\	08/15/14 08:49	08/15/14 11:37	1.00
Hexane	ND	0.106		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00
Benzene	ND	0.0158		mg/kg dry	₩	08/15/14 08:49	08/15/14 11:37	1.00
1,2-Dichloroethane (EDC)	ND	0.106		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00
Trichloroethene	ND	0.0264		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00
Toluene	ND	0.106		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00
Tetrachloroethene	ND	0.0422		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00
Ethylbenzene	ND	0.106		mg/kg dry	₩	08/15/14 08:49	08/15/14 11:37	1.00
m,p-Xylene	ND	0.422		mg/kg dry	₩	08/15/14 08:49	08/15/14 11:37	1.00
o-Xylene	ND	0.211		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:37	1.00

TestAmerica Spokane

Percent Solids: 94.6

Page 6 of 58

9/2/2014

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0

8

Client Sample ID: GEI-MW2 (12-13')

Date Collected: 08/13/14 11:10 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-04

Matrix: Soil

Percent Solids: 94.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		80 - 120	08/15/14 08:49	08/15/14 11:37	1.00
1,2-dichloroethane-d4	99.3		74.7 - 120	08/15/14 08:49	08/15/14 11:37	1.00
Toluene-d8	102		78.5 - 125	08/15/14 08:49	08/15/14 11:37	1.00
4-bromofluorobenzene	102		69.8 - 140	08/15/14 08:49	08/15/14 11:37	1.00

-									
Method: EPA 8011 - EDB by EPA I	Method 8011								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.934		ug/kg dry	\$	08/15/14 10:04	08/15/14 13:41	1.00
1.2-Dibromo-3-chloropropane	ND		0 934		ua/ka drv	₩	08/15/14 10:04	08/15/14 13:41	1 00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10.3		ug/kg dry	\	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1221	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1232	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1242	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1248	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1254	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1260	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:38	1.00
PCB-1268	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 16:38	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	104		46.2 - 210				08/19/14 08:36	08/19/14 16:38	1.00
Decachlorobiphenyl	117		65.6 - 186				08/19/14 08:36	08/19/14 16:38	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0195		mg/kg dry	₩	08/21/14 08:39	08/21/14 18:20	1.00
2-Methylnaphthalene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
1-Methylnaphthalene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Acenaphthylene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Acenaphthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Fluorene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Phenanthrene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Anthracene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Fluoranthene	ND		0.0195		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:20	1.00
Pyrene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Benzo (a) anthracene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Chrysene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Benzo (b) fluoranthene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Benzo (k) fluoranthene	ND		0.0195		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:20	1.00
Benzo (a) pyrene	ND		0.0195		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:20	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0195		mg/kg dry	\$	08/21/14 08:39	08/21/14 18:20	1.00
Dibenzo (a,h) anthracene	ND		0.0117		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:20	1.00
Benzo (ghi) perylene	ND		0.0195		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:20	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	83.4		36.3 - 152				08/21/14 08:39	08/21/14 18:20	1.00
2-FBP	82.2		30.2 - 135				08/21/14 08:39	08/21/14 18:20	1.00
p-Terphenyl-d14	111		65.1 - 134				08/21/14 08:39	08/21/14 18:20	1.00

Client Sample ID: GEI-MW2 (12-13')

Date Collected: 08/13/14 11:10 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-04 Matrix: Soil

Percent Solids: 94.6

Method: NWTPH-HCID - Hydroc	arbon Identifica	ation by NW	/TPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		34		mg/kg dry	₩	08/15/14 11:27	08/15/14 21:31	1.0
Diesel Range Hydrocarbons	ND		85		mg/kg dry	₽	08/15/14 11:27	08/15/14 21:31	1.0
Heavy Oil Range Hydrocarbons	ND		85		mg/kg dry	₩	08/15/14 11:27	08/15/14 21:31	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	88.7		50 - 150				08/15/14 11:27	08/15/14 21:31	1.0
2-FBP	90.2		50 ₋ 150				08/15/14 11:27	08/15/14 21:31	1.0
p-Terphenyl-d14	100		50 ₋ 150				08/15/14 11:27	08/15/14 21:31	1.0

Method: EPA 6010C - Metals	Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.23		1.39		mg/kg dry	₩	08/18/14 09:11	08/27/14 15:29	1.00
Cadmium	ND		0.223		mg/kg dry	₽	08/18/14 09:11	08/27/14 15:29	1.00
Chromium	11.5		0.556		mg/kg dry	₩	08/18/14 09:11	08/27/14 15:29	1.00
Lead	2.96		1.39		mg/kg dry	₽	08/18/14 09:11	08/27/14 15:29	1.00

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Series	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		43.1		ug/kg dry	₩	08/28/14 07:10	08/28/14 15:24	1.00

Client Sample ID: GEI-MW3 (12-13') Lab Sample ID: SXH0089-06

Date Collected: 08/12/14 08:30 **Matrix: Soil** Date Received: 08/14/14 10:00 Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0641		mg/kg dry	<u> </u>	08/15/14 08:49	08/15/14 11:59	1.00
Hexane	ND		0.128		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
Benzene	ND		0.0192		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
1,2-Dichloroethane (EDC)	ND		0.128		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
Trichloroethene	ND		0.0320		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
Toluene	ND		0.128		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
Tetrachloroethene	ND		0.0513		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
Ethylbenzene	ND		0.128		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
m,p-Xylene	ND		0.513		mg/kg dry	₽	08/15/14 08:49	08/15/14 11:59	1.00
o-Xylene	ND		0.256		mg/kg dry	₩	08/15/14 08:49	08/15/14 11:59	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.1		80 - 120				08/15/14 08:49	08/15/14 11:59	1.00
1,2-dichloroethane-d4	99.4		74.7 - 120				08/15/14 08:49	08/15/14 11:59	1.00
Toluene-d8	103		78.5 - 125				08/15/14 08:49	08/15/14 11:59	1.00
4-bromofluorobenzene	99.5		69.8 - 140				08/15/14 08:49	08/15/14 11:59	1.00

Method: EPA 8011 - EDB by EPA I	Method 8011							
Analyte	Result C	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	0.867		ug/kg dry	₩	08/15/14 10:04	08/15/14 13:55	1.00
1,2-Dibromo-3-chloropropane	ND	0.867		ug/kg dry	₩	08/15/14 10:04	08/15/14 13:55	1.00

Method: EPA 8082A - Polychlorina	ted Biphenyls	s by EPA M	ethod 8082						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9.57		ug/kg dry	*	08/19/14 08:36	08/19/14 17:00	1.00

Client Sample ID: GEI-MW3 (12-13')

Lab Sample ID: SXH0089-06 Date Collected: 08/12/14 08:30

Matrix: Soil

Date Received: 08/14/14 10:00 Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		9.57		ug/kg dry	<u> </u>	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1232	ND		9.57		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1242	ND		9.57		ug/kg dry	₽	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1248	ND		9.57		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1254	ND		9.57		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1260	ND		9.57		ug/kg dry	₽	08/19/14 08:36	08/19/14 17:00	1.00
PCB-1268	ND		9.57		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:00	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	110	-	46.2 - 210				08/19/14 08:36	08/19/14 17:00	1.00
Decachlorobiphenyl	118		65.6 - 186				08/19/14 08:36	08/19/14 17:00	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0196		mg/kg dry	₩	08/21/14 08:39	08/21/14 18:43	1.00
2-Methylnaphthalene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
1-Methylnaphthalene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Acenaphthylene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Acenaphthene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Fluorene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Phenanthrene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Anthracene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Fluoranthene	ND		0.0196		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:43	1.00
Pyrene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Benzo (a) anthracene	ND		0.0196		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:43	1.00
Chrysene	ND		0.0196		mg/kg dry	☼	08/21/14 08:39	08/21/14 18:43	1.00
Benzo (b) fluoranthene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Benzo (k) fluoranthene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Benzo (a) pyrene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0196		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Dibenzo (a,h) anthracene	ND		0.0118		mg/kg dry	₽	08/21/14 08:39	08/21/14 18:43	1.00
Benzo (ghi) perylene	ND		0.0196		mg/kg dry	₩	08/21/14 08:39	08/21/14 18:43	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80.2	-	36.3 - 152				08/21/14 08:39	08/21/14 18:43	1.00
2-FBP	78.6		30.2 - 135				08/21/14 08:39	08/21/14 18:43	1.00
p-Terphenyl-d14	100		65.1 - 134				08/21/14 08:39	08/21/14 18:43	1.00

Method: NWTPH-HCID - Hydrod	carbon Identifica	tion by NW	TPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		37		mg/kg dry	<u> </u>	08/15/14 11:27	08/15/14 21:55	1.0
Diesel Range Hydrocarbons	ND		92		mg/kg dry	₽	08/15/14 11:27	08/15/14 21:55	1.0
Heavy Oil Range Hydrocarbons	ND		92		mg/kg dry	₩	08/15/14 11:27	08/15/14 21:55	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	90.3		50 - 150				08/15/14 11:27	08/15/14 21:55	1.0
2-FBP	91.8		50 ₋ 150				08/15/14 11:27	08/15/14 21:55	1.0
p-Terphenyl-d14	99.2		50 - 150				08/15/14 11:27	08/15/14 21:55	1.0

Client Sample ID: GEI-MW3 (12-13')

Date Collected: 08/12/14 08:30 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-06

Matrix: Soil

Percent Solids: 93.2

Method: EPA 6010C - Metals (Content by EPA 6010/7000 Se	eries Methods, I	Prep by EPA 3050B				
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.65	1.34	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:33	1.00
Cadmium	ND	0.215	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:33	1.00
Chromium	11.3	0.536	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:33	1.00
Lead	4.51	1.34	mg/kg dry	₽	08/18/14 09:11	08/27/14 15:33	1.00

Method: EPA 7471B - Total Metals	by EPA 6010)/7000 Serie	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		37.9		ug/kg dry		08/28/14 07:10	08/28/14 15:26	1.00

Client Sample ID: GEI-B1 (2-3')

Date Collected: 08/11/14 15:10 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-07

Matrix: Soil Percent Solids: 84.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0866		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
Hexane	ND		0.173		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
Benzene	ND		0.0260		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
1,2-Dichloroethane (EDC)	ND		0.173		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
Trichloroethene	ND		0.0433		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
Toluene	ND		0.173		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
Tetrachloroethene	ND		0.0693		mg/kg dry	₽	08/15/14 08:49	08/15/14 12:22	1.00
Ethylbenzene	ND		0.173		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:22	1.00
m,p-Xylene	ND		0.693		mg/kg dry	₽	08/15/14 08:49	08/15/14 12:22	1.00
o-Xylene	ND		0.346		mg/kg dry	₽	08/15/14 08:49	08/15/14 12:22	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	95.5		80 - 120				08/15/14 08:49	08/15/14 12:22	1.00
1,2-dichloroethane-d4	94.3		74.7 - 120				08/15/14 08:49	08/15/14 12:22	1.00
Toluene-d8	105		78.5 - 125				08/15/14 08:49	08/15/14 12:22	1.00
4-bromofluorobenzene	101		69.8 - 140				08/15/14 08:49	08/15/14 12:22	1.00
Method: EPA 8011 - EDB by	EPA Method 8011								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		5.86		ug/kg dry	<u> </u>	08/15/14 10:04	08/15/14 14:09	5.00
1,2-Dibromo-3-chloropropane	ND		5.86		ug/kg dry	₽	08/15/14 10:04	08/15/14 14:09	5.00

- 1,2 2.5.6 0 0	2	0.00		agritg ary		00/10/11/10/01	00/10/11 11:00	0.00
- Method: EPA 8082A - Polychl	orinated Biphenyls b	by EPA Method 8082						
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	110		ug/kg dry	\	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1221	ND	110		ug/kg dry	⇔	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1232	ND	110		ug/kg dry	⇔	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1242	ND	110		ug/kg dry	₩	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1248	ND	110		ug/kg dry	₽	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1254	ND	110		ug/kg dry	⇔	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1260	188	110		ug/kg dry	₽	08/19/14 08:36	08/20/14 11:49	10.0
PCB-1268	ND	110		ug/kg dry	₩	08/19/14 08:36	08/20/14 11:49	10.0
Surrogate	%Recovery Qu	ualifier Limits				Prepared	Analyzed	Dil Fac
TCX	91.2	46.2 - 210				08/19/14 08:36	08/20/14 11:49	10.0
Decachlorobiphenyl	78.4	65.6 - 186				08/19/14 08:36	08/20/14 11:49	10.0

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

Cadmium

Chromium

Client Sample ID: GEI-B1 (2-3')

Date Collected: 08/11/14 15:10 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-07

Matrix: Soil

Percent Solids: 84.5

Method: EPA 8270D - Polynucle Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Naphthalene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
2-Methylnaphthalene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
1-Methylnaphthalene	ND	RL1	1.46		mg/kg dry	⇔	08/21/14 08:39	08/21/14 19:05	20.
Acenaphthylene	ND	RL1	1.46		mg/kg dry	₽	08/21/14 08:39	08/21/14 19:05	20.
Acenaphthene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Fluorene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Phenanthrene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Anthracene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Fluoranthene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Pyrene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Benzo (a) anthracene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Chrysene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Benzo (b) fluoranthene	ND	RL1	1.46		mg/kg dry	☆ -	08/21/14 08:39	08/21/14 19:05	20.
Benzo (k) fluoranthene	ND	RL1	1.46		mg/kg dry	⇔	08/21/14 08:39	08/21/14 19:05	20.
Benzo (a) pyrene	ND	RL1	1.46		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Indeno (1,2,3-cd) pyrene	ND	RL1	1.46		mg/kg dry	₋ -	08/21/14 08:39	08/21/14 19:05	20.
Dibenzo (a,h) anthracene	ND	RL1	0.873		mg/kg dry	₩	08/21/14 08:39	08/21/14 19:05	20.
Benzo (ghi) perylene	ND	RL1	1.46		mg/kg dry	₽	08/21/14 08:39	08/21/14 19:05	20.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5	68.0	RL1	36.3 - 152				08/21/14 08:39	08/21/14 19:05	20.
2-FBP	72.0	RL1	30.2 - 135				08/21/14 08:39	08/21/14 19:05	20.
p-Terphenyl-d14	88.0	RL1	65.1 - 134				08/21/14 08:39	08/21/14 19:05	20.
Method: NWTPH-Dx - Semivolati	ile Petroleum P	roducts by	NWTPH-Dx						
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
Diesel Range Hydrocarbons	3950	Q6	391		mg/kg dry	₩	08/25/14 13:21	08/26/14 09:29	20.
Heavy Oil Range Hydrocarbons	15000		979		mg/kg dry	₩	08/25/14 13:21	08/26/14 09:29	20.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	103		50 ₋ 150				08/25/14 13:21	08/26/14 09:29	20.
n-Triacontane-d62	126		50 - 150				08/25/14 13:21	08/26/14 09:29	20.
Method: NWTPH-HCID - Hydroca	arbon Identifica	ition by NV	VTPH-HCID						
Analyte		Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
Gasoline Range Hydrocarbons	ND		120		mg/kg dry	₽	08/15/14 11:27	08/15/14 22:19	1.
Diesel Range Hydrocarbons	3100	Q6	290		mg/kg dry	₩	08/15/14 11:27	08/15/14 22:19	1.
Heavy Oil Range Hydrocarbons	15000		290		mg/kg dry	₽	08/15/14 11:27	08/15/14 22:19	1.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-BFB (FID)	100		50 - 150				08/15/14 11:27	08/15/14 22:19	1.
2-FBP	106		50 - 150				08/15/14 11:27	08/15/14 22:19	1.
p-Terphenyl-d14	102		50 - 150				08/15/14 11:27	08/15/14 22:19	1.
Method: EPA 6010C - Metals Co	ntent by EPA 6	010/7000 S	eries Methods, l	Prep by I	EPA 3050B				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	9.66	-	1.57		mg/kg dry	<u></u>	08/18/14 09:11	08/27/14 15:37	1.0

TestAmerica Spokane

08/27/14 15:37

08/27/14 15:37

08/27/14 15:37

₩

08/18/14 09:11

08/18/14 09:11

08/18/14 09:11

mg/kg dry

mg/kg dry

mg/kg dry

0.252

0.629

1.57

2.60

20.2

806

1.00

1.00

1.00

Client Sample ID: GEI-B1 (2-3')

Date Collected: 08/11/14 15:10 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-07

Matrix: Soil

Percent Solids: 84.5

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Series	Methods					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	512		47.2	ug/kg dry	*	08/28/14 07:10	08/28/14 15:29	1.00

Client Sample ID: GEI-B1 (12-13')

Lab Sample ID: SXH0089-08

Date Collected: 08/11/14 15:40

Date Received: 08/14/14 10:00

Matrix: Soil
Percent Solids: 92.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.7		mg/kg dry	₩	08/25/14 13:21	08/25/14 18:41	1.00
Heavy Oil Range Hydrocarbons	ND		26.8		mg/kg dry	₽	08/25/14 13:21	08/25/14 18:41	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	112		50 - 150				08/25/14 13:21	08/25/14 18:41	1.00
n-Triacontane-d62	114		50 ₋ 150				08/25/14 13:21	08/25/14 18:41	1.00

Client Sample ID: GEI-B2 (13-14')

Lab Sample ID: SXH0089-10

Date Collected: 08/11/14 12:20

Date Received: 08/14/14 10:00

Matrix: Soil
Percent Solids: 93.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0522		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Hexane	ND		0.104		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Benzene	ND		0.0156		mg/kg dry	₽	08/15/14 08:49	08/15/14 12:44	1.00
1,2-Dichloroethane (EDC)	ND		0.104		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Trichloroethene	ND		0.0261		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Toluene	ND		0.104		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Tetrachloroethene	ND		0.0417		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
Ethylbenzene	ND		0.104		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
m,p-Xylene	ND		0.417		mg/kg dry	₩	08/15/14 08:49	08/15/14 12:44	1.00
o-Xylene	ND		0.209		mg/kg dry		08/15/14 08:49	08/15/14 12:44	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		80 - 120				08/15/14 08:49	08/15/14 12:44	1.00
1,2-dichloroethane-d4	99.0		74.7 - 120				08/15/14 08:49	08/15/14 12:44	1.00
Toluene-d8	102		78.5 - 125				08/15/14 08:49	08/15/14 12:44	1.00
4-bromofluorobenzene	100		69.8 - 140				08/15/14 08:49	08/15/14 12:44	1.00

Method: EPA 8011 - EDB by EPA Method 8011								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	1,2-Dibromoethane	ND	0.945	ug/kg dry	₩	08/15/14 10:04	08/15/14 14:24	1.00
	1,2-Dibromo-3-chloropropane	ND	0.945	ug/kg dry	₩	08/15/14 10:04	08/15/14 14:24	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9.67		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:42	1.00
PCB-1221	ND		9.67		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:42	1.00
PCB-1232	ND		9.67		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:42	1.00
PCB-1242	ND		9.67		ug/kg dry	₩	08/19/14 08:36	08/19/14 17:42	1.00
PCB-1248	ND		9.67		ug/kg dry	₽	08/19/14 08:36	08/19/14 17:42	1.00
PCB-1254	ND		9.67		ug/kg dry	≎	08/19/14 08:36	08/19/14 17:42	1.00

Chromium

Client Sample ID: GEI-B2 (13-14')

Lab Sample ID: SXH0089-10

Matrix: Soil

Percent Solids: 93.2

Date Collected: 08/11/14 12:20
Date Received: 08/14/14 10:00
Method: EPA 8082A - Polychlorinated Biphenyls by EPA Method 8082 (Co

Method: EPA 8082A - Polychlorinated Biphenyls by EPA Method 8082 (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
PCB-1260	ND		9.67		ug/kg dry	*	08/19/14 08:36	08/19/14 17:42	1.00	
PCB-1268	ND		9.67		ug/kg dry	₽	08/19/14 08:36	08/19/14 17:42	1.00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
TCX	102		46.2 - 210				08/19/14 08:36	08/19/14 17:42	1.00	
Decachlorobiphenyl	106		65.6 - 186				08/19/14 08:36	08/19/14 17:42	1.00	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
2-Methylnaphthalene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
1-Methylnaphthalene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
Acenaphthylene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
Acenaphthene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Fluorene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Phenanthrene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Anthracene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Fluoranthene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Pyrene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
Benzo (a) anthracene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Chrysene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Benzo (b) fluoranthene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
Benzo (k) fluoranthene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Benzo (a) pyrene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0202	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:28	1.00
Dibenzo (a,h) anthracene	ND		0.0121	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Benzo (ghi) perylene	ND		0.0202	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:28	1.00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87.6		36.3 - 152			08/21/14 08:39	08/21/14 19:28	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87.6		36.3 - 152	08/21/14 08:39	08/21/14 19:28	1.00
2-FBP	82.6		30.2 - 135	08/21/14 08:39	08/21/14 19:28	1.00
p-Terphenyl-d14	105		65.1 - 134	08/21/14 08:39	08/21/14 19:28	1.00

Method: NWTPH-HCID - Hydrod	arbon Identifica	tion by NW	TPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		41		mg/kg dry	<u></u>	08/15/14 11:27	08/15/14 23:08	1.0
Diesel Range Hydrocarbons	ND		100		mg/kg dry	≎	08/15/14 11:27	08/15/14 23:08	1.0
Heavy Oil Range Hydrocarbons	ND		100		mg/kg dry	₩	08/15/14 11:27	08/15/14 23:08	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	88.5		50 - 150				08/15/14 11:27	08/15/14 23:08	1.0
2-FRP	96.2		50 150				08/15/14 11:27	08/15/14 23:08	10

İ	2-FBP	96.2		50 - 150			08/15/14 11:27	08/15/14 23:08	1.0
	p-Terphenyl-d14	106		50 - 150			08/15/14 11:27	08/15/14 23:08	1.0
'n	_								
	Method: EPA 6010C - Metals Cont Analyte	•	010/7000 Seri Qualifier	ies Methods, I RL	 EPA 3050B Unit	D	Prepared	Analyzed	Dil Fac
		•		•		_ D	Prepared 08/18/14 09:11	Analyzed 08/27/14 15:41	Dil Fac 1.00

0.511

1.28

14.9

4.72

TestAmerica Spokane

08/27/14 15:41

08/27/14 15:41

08/18/14 09:11

08/18/14 09:11

mg/kg dry

mg/kg dry

1.00

1.00

Client Sample ID: GEI-B2 (13-14')

Date Collected: 08/11/14 12:20 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-10

Matrix: Soil

Percent Solids: 93.2

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Mercury	ND		37.3		ug/kg dry	*	08/28/14 07:10	08/28/14 15:31	1.00

Client Sample ID: GEI-B3 (7-8') Lab Sample ID: SXH0089-12

Date Collected: 08/11/14 10:55

Decachlorobiphenyl

Matrix: Soil

Pate Received: 08/14/14 10:00								Percent Soli	ds: 95.
Method: EPA 8260C - Volatile Analyte	•	nds by EP	A Methods 5035	/8260C	Unit	D	Prepared	Analyzed	Dil Fa
Methyl tert-butyl ether	ND		0.0586		mg/kg dry	<u></u>	08/15/14 08:49	08/15/14 13:06	1.0
Hexane	ND		0.117		mg/kg dry	₩	08/15/14 08:49	08/15/14 13:06	1.0
Benzene	ND		0.0176		mg/kg dry	☼	08/15/14 08:49	08/15/14 13:06	1.0
1,2-Dichloroethane (EDC)	ND		0.117		mg/kg dry		08/15/14 08:49	08/15/14 13:06	1.0
Trichloroethene	ND		0.0293		mg/kg dry	☼	08/15/14 08:49	08/15/14 13:06	1.0
Toluene	ND		0.117		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:06	1.0
Tetrachloroethene	ND		0.0469		mg/kg dry	₩.	08/15/14 08:49	08/15/14 13:06	1.0
Ethylbenzene	ND		0.117		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:06	1.0
m,p-Xylene	ND		0.469		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:06	1.0
o-Xylene	ND		0.234		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:06	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Dibromofluoromethane	101		80 - 120				08/15/14 08:49	08/15/14 13:06	1.0
1,2-dichloroethane-d4	99.9		74.7 - 120				08/15/14 08:49	08/15/14 13:06	1.0
Toluene-d8	103		78.5 - 125				08/15/14 08:49	08/15/14 13:06	1.0
4-bromofluorobenzene	101		69.8 - 140				08/15/14 08:49	08/15/14 13:06	1.0
Method: EPA 8011 - EDB by E	EPA Method 8011								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,2-Dibromoethane	ND		0.853		ug/kg dry	<u></u>	08/15/14 10:04	08/15/14 14:38	1.0
1,2-Dibromo-3-chloropropane	ND		0.853		ug/kg dry	₽	08/15/14 10:04	08/15/14 14:38	1.0
- Method: EPA 8082A - Polychle	orinated Biphenv	s by EPA I	Method 8082						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
PCB-1016	ND		10.4		ug/kg dry	<u></u>	08/19/14 08:36	08/19/14 18:03	1.0

TCX	110	46.2 - 210			08/19/14 08:36	08/19/14 18:03	1.00
Surrogate	%Recovery Quality	fier Limits			Prepared	Analyzed	Dil Fac
PCB-1268	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1260	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1254	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1248	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1242	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1232	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1221	ND	10.4	ug/kg dry	₩	08/19/14 08:36	08/19/14 18:03	1.00
PCB-1016	ND	10.4	ug/kg ary	244	08/19/14 08:36	08/19/14 18:03	1.00

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Analyte	Result	Qualifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Naphthalene	ND	0.018	4	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:50	1.00	
2-Methylnaphthalene	ND	0.018	4	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:50	1.00	
1-Methylnaphthalene	ND	0.018	4	mg/kg dry	₩	08/21/14 08:39	08/21/14 19:50	1.00	
Acenaphthylene	ND	0.018	4	mg/kg dry	₽	08/21/14 08:39	08/21/14 19:50	1.00	

65.6 - 186

117

TestAmerica Spokane

1.00

Client Sample ID: GEI-B3 (7-8')

Lab Sample ID: SXH0089-12

Matrix: Soil

1.00

1 00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

Percent Solids: 95.9

Date Collected: 08/11/14 10:55

Date Received: 08/14/14 10:00 Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued) Result Qualifier MDL Prepared Dil Fac Analyte RL Unit D Analyzed ND 0.0184 08/21/14 08:39 08/21/14 19:50 Acenaphthene mg/kg dry Fluorene ND 0.0184 08/21/14 08:39 08/21/14 19:50 mg/kg dry ā Phenanthrene ND 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 Anthracene ND 0.0184 08/21/14 08:39 08/21/14 19:50 mg/kg dry ₩ Fluoranthene ND 0.0184 08/21/14 08:39 08/21/14 19:50 mg/kg dry ND 0.0184 08/21/14 08:39 08/21/14 19:50 Pyrene mg/kg dry ₽ Benzo (a) anthracene ND 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 ND 0.0184 08/21/14 08:39 08/21/14 19:50 Chrysene mg/kg dry ā ND Benzo (b) fluoranthene 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 Benzo (k) fluoranthene ND 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 ŭ ND Benzo (a) pyrene 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 ā ND 08/21/14 08:39 Indeno (1,2,3-cd) pyrene 0.0184 mg/kg dry 08/21/14 19:50 Dibenzo (a,h) anthracene ND 0.0111 mg/kg dry 08/21/14 08:39 08/21/14 19:50 Benzo (ghi) perylene ND 0.0184 mg/kg dry 08/21/14 08:39 08/21/14 19:50 Surrogate %Recovery Qualifier Limits Prepared Analyzed Nitrobenzene-d5 81.2 36.3 _ 152 08/21/14 08:39 08/21/14 19:50

Dil Fac 1.00 2-FBP 79.2 30.2 - 135 08/21/14 08:39 1.00 08/21/14 19:50 102 p-Terphenyl-d14 65.1 - 134 08/21/14 08:39 08/21/14 19:50 1.00

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Gasoline Range Hydrocarbons ND 38 mg/kg dry Ö 08/15/14 11:27 08/15/14 23:32 1.0 ND 95 # 08/15/14 11:27 08/15/14 23:32 Diesel Range Hydrocarbons mg/kg dry 1.0 ŭ Heavy Oil Range Hydrocarbons ND 95 mg/kg dry 08/15/14 11:27 08/15/14 23:32 1.0

Qualifier Surrogate %Recovery I imits Prepared Analyzed Dil Fac 4-BFB (FID) 89.5 50 - 150 08/15/14 11:27 08/15/14 23:32 1.0 2-FBP 96.5 50 - 150 08/15/14 11:27 08/15/14 23:32 10 p-Terphenyl-d14 108 50 - 150 08/15/14 11:27 08/15/14 23:32 1.0

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac ₩ 1.23 08/18/14 09:11 **Arsenic** 2.66 mg/kg dry 08/27/14 15:45 1.00 Cadmium ND 0.197 mg/kg dry 08/18/14 09:11 08/27/14 15:45 1.00 ₩ Chromium 14.8 0.492 mg/kg dry 08/18/14 09:11 08/27/14 15:45 1.00 08/18/14 09:11 08/27/14 15:45 Lead 3.04 1.23 mg/kg dry 1.00

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods Analyte Result Qualifier RΙ MDL Unit D Dil Fac Prepared Analyzed ₩ 08/28/14 07:10 08/28/14 15:38 Mercury ND 42.4 ug/kg dry 1.00

Client Sample ID: GEI-B4 (2-3') Lab Sample ID: SXH0089-13

Date Collected: 08/11/14 16:20 Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 92.7

Method: EPA 6010C - Metals Conte	nt by EPA 60	10/7000 Ser	ies Methods, I	Prep by EPA 3050B				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.3		2.64	mg/kg dry	₩	08/27/14 13:45	08/28/14 08:12	2.00
Barium	277		1.06	mg/kg dry	₽	08/27/14 13:45	08/28/14 08:12	2.00
Cadmium	6.78		0.423	mg/kg dry	☼	08/27/14 13:45	08/28/14 08:12	2.00

Client: Geo Engineers - Spokane TestAmerica Job ID: SXH0089

Project/Site: 0504-101-01

Client Sample ID: GEI-B4 (2-3')

Lab Sample ID: SXH0089-13

Date Collected: 08/11/14 16:20 Date Received: 08/14/14 10:00

	matrix: Soil
Percent	Solids: 92.7

Method: EPA 6010C - Metals	Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)									
Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Chromium	18.4	1.06	mg/kg dry	<u></u>	08/27/14 13:45	08/28/14 08:12	2.00			
Lead	865	2.64	mg/kg dry	\$	08/27/14 13:45	08/28/14 08:12	2.00			
Selenium	ND	5.29	mg/kg dry	₽	08/27/14 13:45	08/28/14 08:12	2.00			
Silver	ND RL3	1.06	mg/kg dry	₩	08/27/14 13:45	08/28/14 08:12	2.00			

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	203		37.9		ug/kg dry	<u> </u>	08/28/14 07:09	08/28/14 14:29	1.00	

Client Sample ID: GEI-B4 (7-8')

Lab Sample ID: SXH0089-14

Date Collected: 08/11/14 16:10

Decachlorobiphenyl

Percent Solids: 97.3

Matrix: Soil Date Received: 08/14/14 10:00

Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	0.0610		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Hexane	ND	0.122		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Benzene	ND	0.0183		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
1,2-Dichloroethane (EDC)	ND	0.122		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Trichloroethene	ND	0.0305		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Toluene	ND	0.122		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Tetrachloroethene	ND	0.0488		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
Ethylbenzene	ND	0.122		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
m,p-Xylene	ND	0.488		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00
o-Xylene	ND	0.244		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:29	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		80 - 120	08/15/14 08:49	08/15/14 13:29	1.00
1,2-dichloroethane-d4	99.5		74.7 - 120	08/15/14 08:49	08/15/14 13:29	1.00
Toluene-d8	104		78.5 - 125	08/15/14 08:49	08/15/14 13:29	1.00
4-bromofluorobenzene	101		69.8 - 140	08/15/14 08:49	08/15/14 13:29	1.00

Method: EPA 8011 - EDB by EPA	Method 8011						
Analyte	Result Qu	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	0.765	ug/kg dry	*	08/15/14 10:04	08/15/14 15:07	1.00
1,2-Dibromo-3-chloropropane	ND	0.765	ug/kg dry	☼	08/15/14 10:04	08/15/14 15:07	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9.64		ug/kg dry	☼	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1221	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1232	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1242	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1248	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1254	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1260	ND		9.64		ug/kg dry	₩	08/19/14 08:36	08/19/14 18:46	1.00
PCB-1268	ND		9.64		ug/kg dry	₽	08/19/14 08:36	08/19/14 18:46	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	132		46.2 - 210				08/19/14 08:36	08/19/14 18:46	1.00

TestAmerica Spokane

08/19/14 18:46

08/19/14 08:36

65.6 - 186

119

1.00

Date Received: 08/14/14 10:00

Client Sample ID: GEI-B4 (7-8')

Lab Sample ID: SXH0089-14

Matrix: Soil

Percent Solids: 97.3

Date Collected: 08/11/14 16:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0191		mg/kg dry	\	08/21/14 08:39	08/21/14 20:13	1.00
2-Methylnaphthalene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
1-Methylnaphthalene	ND		0.0191		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Acenaphthylene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
Acenaphthene	ND		0.0191		mg/kg dry	⇔	08/21/14 08:39	08/21/14 20:13	1.00
Fluorene	ND		0.0191		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Phenanthrene	ND		0.0191		mg/kg dry	\$	08/21/14 08:39	08/21/14 20:13	1.00
Anthracene	ND		0.0191		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Fluoranthene	ND		0.0191		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Pyrene	ND		0.0191		mg/kg dry	⇔	08/21/14 08:39	08/21/14 20:13	1.00
Benzo (a) anthracene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
Chrysene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
Benzo (b) fluoranthene	ND		0.0191		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Benzo (k) fluoranthene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
Benzo (a) pyrene	ND		0.0191		mg/kg dry	⇔	08/21/14 08:39	08/21/14 20:13	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0191		mg/kg dry	⇔	08/21/14 08:39	08/21/14 20:13	1.00
Dibenzo (a,h) anthracene	ND		0.0115		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:13	1.00
Benzo (ghi) perylene	ND		0.0191		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:13	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73.0		36.3 - 152				08/21/14 08:39	08/21/14 20:13	1.00
2-FBP	71.0		30.2 _ 135				08/21/14 08:39	08/21/14 20:13	1.00
p-Terphenyl-d14	101		65.1 - 134				08/21/14 08:39	08/21/14 20:13	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		31		mg/kg dry	₩	08/15/14 11:27	08/15/14 23:56	1.0
Diesel Range Hydrocarbons	ND		78		mg/kg dry	₽	08/15/14 11:27	08/15/14 23:56	1.0
Heavy Oil Range Hydrocarbons	ND		78		mg/kg dry	₩	08/15/14 11:27	08/15/14 23:56	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	89.3	-	50 - 150				08/15/14 11:27	08/15/14 23:56	1.0
2-FBP	94.8		50 - 150				08/15/14 11:27	08/15/14 23:56	1.0
p-Terphenyl-d14	105		50 ₋ 150				08/15/14 11:27	08/15/14 23:56	1.0

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.40		1.21		mg/kg dry	₩	08/18/14 09:11	08/27/14 15:49	1.00
Cadmium	ND		0.194		mg/kg dry	☼	08/18/14 09:11	08/27/14 15:49	1.00
Chromium	13.5		0.485		mg/kg dry	₽	08/18/14 09:11	08/27/14 15:49	1.00
Lead	2.20		1.21		mg/kg dry	₽	08/18/14 09:11	08/27/14 15:49	1.00

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		49.0		ug/kg dry	₩	08/28/14 07:10	08/28/14 15:40	1.00

Client Sample ID: GEI-B5 (2-3')

Lab Sample ID: SXH0089-15

Matrix: Soil

Percent Solids: 91.4

Date Collected: 08/11/14 10:00 Date Received: 08/14/14 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.46		1.17		mg/kg dry	*	08/27/14 13:45	08/29/14 11:30	1.00
Barium	60.4		0.468		mg/kg dry	₩	08/27/14 13:45	08/29/14 11:30	1.00
Cadmium	ND		0.187		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:30	1.00
Chromium	7.33		0.468		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:30	1.00
Lead	24.8		1.17		mg/kg dry	₩	08/27/14 13:45	08/29/14 11:30	1.00
Selenium	ND		2.34		mg/kg dry	₩	08/27/14 13:45	08/29/14 11:30	1.00
Silver	ND		0.468		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:30	1.00

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	48.8		48.1		ug/kg dry	#	08/28/14 07:09	08/28/14 14:38	1.00	

Client Sample ID: GEI-B5 (7-8')

Lab Sample ID: SXH0089-16

Date Collected: 08/11/14 10:10
Date Received: 08/14/14 10:00

Matrix: Soil Percent Solids: 91.8

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0623		mg/kg dry	₩	08/15/14 08:49	08/15/14 13:51	1.00
Hexane	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
Benzene	ND		0.0187		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
1,2-Dichloroethane (EDC)	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
Trichloroethene	ND		0.0311		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
Toluene	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
Tetrachloroethene	ND		0.0498		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
Ethylbenzene	ND		0.125		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
m,p-Xylene	ND		0.498		mg/kg dry	₽	08/15/14 08:49	08/15/14 13:51	1.00
o-Xylene	ND		0.249		mg/kg dry	ф.	08/15/14 08:49	08/15/14 13:51	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	09.7		90 120				00/15/11 00:10	08/15/14 12:51	1 00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac	
Dibromofluoromethane	98.7		80 - 120	08/15/14 08:49	08/15/14 13:51	1.00	
1,2-dichloroethane-d4	98.9		74.7 - 120	08/15/14 08:49	08/15/14 13:51	1.00	
Toluene-d8	102		78.5 - 125	08/15/14 08:49	08/15/14 13:51	1.00	
4-bromofluorobenzene	98.3		69.8 - 140	08/15/14 08:49	08/15/14 13:51	1.00	

Analyte		Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.978	uç	g/kg dry	₽	08/15/14 10:04	08/15/14 15:21	1.00
1.2-Dibromo-3-chloropropane	ND		0.978	uc	a/ka drv	₩	08/15/14 10:04	08/15/14 15:21	1.00

Method: EPA 8082A - Poly	chlorinated Biphenyls b	y EPA Method 8082
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1221	ND		10.1		ug/kg dry	⇔	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1232	ND		10.1		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1242	ND		10.1		ug/kg dry	⇔	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1248	ND		10.1		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1254	ND		10.1		ug/kg dry	⇔	08/19/14 08:36	08/20/14 11:07	1.00
PCB-1260	ND		10.1		ug/kg dry	⇔	08/19/14 08:36	08/19/14 19:07	1.00
PCB-1268	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:07	1.00

Client Sample ID: GEI-B5 (7-8')

Lab Sample ID: SXH0089-16

Matrix: Soil

Date Collected: 08/11/14 10:10 Date Received: 08/14/14 10:00

Percent Solids: 91.8

TCX Decachlorobiphenyl		Qualifier	Limits				Prepared	Analyzed	Dil Fa
, ,	134		46.2 - 210				08/19/14 08:36	08/19/14 19:07	1.0
	114		65.6 - 186				08/19/14 08:36	08/19/14 19:07	1.0
Method: EPA 8270D - Polynuclea	ar Aromatic Co	mpounds l	by GC/MS with S	Selected	Ion Monito	ring			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Naphthalene	ND		0.0215		mg/kg dry	<u> </u>	08/21/14 08:39	08/21/14 20:35	1.0
2-Methylnaphthalene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
1-Methylnaphthalene	ND		0.0215		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:35	1.0
Acenaphthylene	ND		0.0215		mg/kg dry	\$	08/21/14 08:39	08/21/14 20:35	1.0
Acenaphthene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Fluorene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Phenanthrene	ND		0.0215		mg/kg dry	\$	08/21/14 08:39	08/21/14 20:35	1.0
Anthracene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Fluoranthene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Pyrene	ND		0.0215		mg/kg dry	Φ.	08/21/14 08:39	08/21/14 20:35	1.0
Benzo (a) anthracene	ND		0.0215		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:35	1.0
Chrysene	ND		0.0215		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:35	1.0
Benzo (b) fluoranthene	ND		0.0215		mg/kg dry	Φ.	08/21/14 08:39	08/21/14 20:35	1.0
Benzo (k) fluoranthene	ND		0.0215		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Benzo (a) pyrene	ND		0.0215		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:35	1.0
Indeno (1,2,3-cd) pyrene	ND		0.0215		mg/kg dry	Φ.	08/21/14 08:39	08/21/14 20:35	1.0
Dibenzo (a,h) anthracene	ND		0.0129		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:35	1.0
Benzo (ghi) perylene	ND		0.0215		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:35	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5	73.4	-	36.3 - 152				08/21/14 08:39	08/21/14 20:35	1.0
2-FBP	78.0		30.2 - 135				08/21/14 08:39	08/21/14 20:35	1.0
p-Terphenyl-d14	108		65.1 - 134				08/21/14 08:39	08/21/14 20:35	1.0
Method: NWTPH-HCID - Hydroca	arbon Identifica	ition by NV	/TPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Hydrocarbons	ND		37		mg/kg dry	₽	08/15/14 11:27	08/16/14 00:20	1.
Diesel Range Hydrocarbons	ND		93		mg/kg dry	₽	08/15/14 11:27	08/16/14 00:20	1.
Heavy Oil Range Hydrocarbons	ND		93		mg/kg dry	₩	08/15/14 11:27	08/16/14 00:20	1.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
<u> </u>	90.0		50 - 150				08/15/14 11:27	08/16/14 00:20	1
4-BFB (FID)			50 - 150				08/15/14 11:27	08/16/14 00:20	1
	96.9								
4-BFB (FID)	96.9 106		50 - 150				08/15/14 11:27	08/16/14 00:20	1
4-BFB (FID) 2-FBP	106	010/7000 S		Prep by I	EPA 3050B		08/15/14 11:27	08/16/14 00:20	1
4-BFB (FID) 2-FBP p-Terphenyl-d14	106 ntent by EPA 6	010/7000 S Qualifier			EPA 3050B Unit	D	08/15/14 11:27 Prepared	08/16/14 00:20 Analyzed	
4-BFB (FID) 2-FBP p-Terphenyl-d14 Method: EPA 6010C - Metals Cor	106 ntent by EPA 6		eries Methods, I			_ D			Dil Fa
4-BFB (FID) 2-FBP o-Terphenyl-d14 Method: EPA 6010C - Metals Cor Analyte	ntent by EPA 6 Result 2.77		eries Methods, I		Unit		Prepared	Analyzed	Dil Fa
4-BFB (FID) 2-FBP p-Terphenyl-d14 Method: EPA 6010C - Metals Cor Analyte Arsenic	ntent by EPA 6 Result 2.77	Qualifier	eries Methods, I RL 2.41		Unit mg/kg dry	-	Prepared 08/18/14 09:11	Analyzed 08/27/14 17:41	2.0 2.0
4-BFB (FID) 2-FBP p-Terphenyl-d14 Method: EPA 6010C - Metals Cor Analyte Arsenic Cadmium	ntent by EPA 6 Result 2.77 ND	Qualifier	eries Methods, I RL 2.41 0.386		mg/kg dry mg/kg dry	— □	Prepared 08/18/14 09:11 08/18/14 09:11	Analyzed 08/27/14 17:41 08/27/14 17:41	2.0 2.0 2.0
4-BFB (FID) 2-FBP p-Terphenyl-d14 Method: EPA 6010C - Metals Cor Analyte Arsenic Cadmium Chromium	106 ntent by EPA 6 Result 2.77 ND 16.6 3.68	Qualifier RL3	eries Methods, I RL 2.41 0.386 0.964 2.41		mg/kg dry mg/kg dry mg/kg dry	# # #	Prepared 08/18/14 09:11 08/18/14 09:11 08/18/14 09:11	Analyzed 08/27/14 17:41 08/27/14 17:41 08/27/14 17:41	Dil Fa

Client Sample ID: GEI-B6 (2-3')

Lab Sample ID: SXH0089-17 Date Collected: 08/11/14 14:05

Matrix: Soil

Date Received: 08/14/14 10:00 Percent Solids: 90.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.4		1.31		mg/kg dry	\	08/27/14 13:45	08/29/14 11:34	1.00
Barium	93.4		0.524		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:34	1.00
Cadmium	1.24		0.210		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:34	1.00
Chromium	13.2		0.524		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:34	1.00
Lead	343		1.31		mg/kg dry	₩	08/27/14 13:45	08/29/14 11:34	1.00
Selenium	ND		2.62		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:34	1.00
Silver	ND		0.524		mg/kg dry	₽	08/27/14 13:45	08/29/14 11:34	1.00

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	126		41.7		ug/kg dry	*	08/28/14 07:09	08/28/14 14:41	1.00

Client Sample ID: GEI-B6 (13-14') Lab Sample ID: SXH0089-19

Date Collected: 08/11/14 14:25 Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 95.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0605		mg/kg dry	₩	08/15/14 08:49	08/15/14 14:14	1.00
Hexane	ND		0.121		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
Benzene	ND		0.0182		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
1,2-Dichloroethane (EDC)	ND		0.121		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
Trichloroethene	ND		0.0303		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
Toluene	ND		0.121		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
Tetrachloroethene	ND		0.0484		mg/kg dry	φ	08/15/14 08:49	08/15/14 14:14	1.00
Ethylbenzene	ND		0.121		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
m,p-Xylene	ND		0.484		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:14	1.00
o-Xylene	ND		0.242		mg/kg dry	₩.	08/15/14 08:49	08/15/14 14:14	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

·	,	4			· ···· , – · ··	
Dibromofluoromethane	101		80 - 120	08/15/14 08:49	08/15/14 14:14	1.00
1,2-dichloroethane-d4	102		74.7 - 120	08/15/14 08:49	08/15/14 14:14	1.00
Toluene-d8	101		78.5 - 125	08/15/14 08:49	08/15/14 14:14	1.00
4-bromofluorobenzene	101		69.8 - 140	08/15/14 08:49	08/15/14 14:14	1.00
						

Method: EPA 8011 - EDB by EPA Method 8011										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1,2-Dibromoethane	ND		0.929		ug/kg dry	*	08/15/14 10:04	08/15/14 15:36	1.00
	1,2-Dibromo-3-chloropropane	ND		0.929		ug/kg dry	₽	08/15/14 10:04	08/15/14 15:36	1.00

Method: EPA 8082A - Poly	chlorinated Biphenyl	s by EPA Met	thod 8082						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10.3		ug/kg dry	\	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1221	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1232	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1242	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1248	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1254	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/20/14 11:28	1.00
PCB-1260	ND		10.3		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:28	1.00
PCB-1268	ND		10.3		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:28	1.00

Client Sample ID: GEI-B6 (13-14')

Date Collected: 08/11/14 14:25 Date Received: 08/14/14 10:00

Diesel Range Hydrocarbons

Lab Sample ID: SXH0089-19

Matrix: Soil

Percent Solids: 95.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TCX	102		46.2 - 210	08/19/14 08:36	08/19/14 19:28	1.00
Decachlorobiphenyl	113		65.6 - 186	08/19/14 08:36	08/19/14 19:28	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0207		mg/kg dry	\$	08/21/14 08:39	08/21/14 20:58	1.00
2-Methylnaphthalene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
1-Methylnaphthalene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Acenaphthylene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Acenaphthene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Fluorene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Phenanthrene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Anthracene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Fluoranthene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Pyrene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Benzo (a) anthracene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Chrysene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Benzo (b) fluoranthene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Benzo (k) fluoranthene	ND		0.0207		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:58	1.00
Benzo (a) pyrene	ND		0.0207		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:58	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0207		mg/kg dry	₽	08/21/14 08:39	08/21/14 20:58	1.00
Dibenzo (a,h) anthracene	ND		0.0124		mg/kg dry	☼	08/21/14 08:39	08/21/14 20:58	1.00
Benzo (ghi) perylene	ND		0.0207		mg/kg dry	₩	08/21/14 08:39	08/21/14 20:58	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	84.2		36.3 - 152				08/21/14 08:39	08/21/14 20:58	1.00
2-FBP	88.2		30.2 _ 135				08/21/14 08:39	08/21/14 20:58	1.00
p-Terphenyl-d14	120		65.1 - 134				08/21/14 08:39	08/21/14 20:58	1.00

Gasoline Range Hydrocarbons	ND		38		ma/ka dry		08/15/14 11:27	08/16/14 00:44	1.0
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: NWTPH-HCID - Hydrocarl	bon Identifica	tion by NW	TPH-HCID						
p-Terphenyl-d14	120		65.1 - 134				08/21/14 08:39	08/21/14 20:58	1.00
2-FBP	88.2		30.2 - 135				08/21/14 08:39	08/21/14 20:58	1.00

96

mg/kg dry

© 08/15/14 11:27 08/16/14 00:44

ND

Heavy Oil Range Hydrocarbons	ND		96	mg/kg dry	₽	08/15/14 11:27	08/16/14 00:44	1.0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-BFB (FID)	89.2		50 - 150			08/15/14 11:27	08/16/14 00:44	1.0
2-FBP	95.6		50 - 150			08/15/14 11:27	08/16/14 00:44	1.0

4-BFB (FID)	89.2	50 - 150	08/15/14 11:27	08/16/14 00:44	1.0
2-FBP	95.6	50 - 150	08/15/14 11:27	08/16/14 00:44	1.0
p-Terphenyl-d14	106	50 - 150	08/15/14 11:27	08/16/14 00:44	1.0
[

Method: EPA 6010C - Metals	Content by EPA 6010/7000 Ser	PA 6010/7000 Series Methods, Prep by EPA 3050B						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	3.39	1.37	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:57	1.00	
Cadmium	ND	0.219	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:57	1.00	
Chromium	15.7	0.547	mg/kg dry	₩	08/18/14 09:11	08/27/14 15:57	1.00	
Lead	4.77	1.37	mg/kg dry	₽	08/18/14 09:11	08/27/14 15:57	1.00	

_ Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Serie	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		41.0		ug/kg dry	\$	08/28/14 07:10	08/28/14 15:45	1.00

1.0

2

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Date Collected: 08/11/14 08:45

Date Received: 08/14/14 10:00

Client Sample ID: GEI-B7 (13-14')

Lab Sample ID: SXH0089-21

Matrix: Soil

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0750		mg/kg dry	<u> </u>	08/15/14 08:49	08/15/14 14:36	1.00
Hexane	ND		0.150		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
Benzene	ND		0.0225		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
1,2-Dichloroethane (EDC)	ND		0.150		mg/kg dry	\$	08/15/14 08:49	08/15/14 14:36	1.00
Trichloroethene	ND		0.0375		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
Toluene	ND		0.150		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
Tetrachloroethene	ND		0.0600		mg/kg dry	\$	08/15/14 08:49	08/15/14 14:36	1.00
Ethylbenzene	ND		0.150		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
m,p-Xylene	ND		0.600		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:36	1.00
o-Xylene	ND		0.300		mg/kg dry	₩	08/15/14 08:49	08/15/14 14:36	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		80 - 120				08/15/14 08:49	08/15/14 14:36	1.00
1,2-dichloroethane-d4	97.9		74.7 - 120				08/15/14 08:49	08/15/14 14:36	1.00
Toluene-d8	102		78.5 - 125				08/15/14 08:49	08/15/14 14:36	1.00
4-bromofluorobenzene	103		69.8 - 140				08/15/14 08:49	08/15/14 14:36	1.00

Method: EPA 8011 - EDB by EPA I	Method 8011							
Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	1.05		ug/kg dry	₩	08/15/14 10:04	08/15/14 15:50	1.00
1,2-Dibromo-3-chloropropane	ND	1.05		ug/kg dry	₩	08/15/14 10:04	08/15/14 15:50	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9.29		ug/kg dry	\	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1221	ND		9.29		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1232	ND		9.29		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1242	ND		9.29		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1248	ND		9.29		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1254	ND		9.29		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1260	ND		9.29		ug/kg dry	₽	08/19/14 08:36	08/19/14 19:49	1.00
PCB-1268	ND		9.29		ug/kg dry	₩	08/19/14 08:36	08/19/14 19:49	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	130		46.2 - 210				08/19/14 08:36	08/19/14 19:49	1.00
Decachlorobiphenyl	117		65.6 - 186				08/19/14 08:36	08/19/14 19:49	1.00

Analyte	Result Qu	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	0.0197		mg/kg dry	\	08/21/14 08:39	08/21/14 21:20	1.00
2-Methylnaphthalene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
1-Methylnaphthalene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Acenaphthylene	ND	0.0197		mg/kg dry	ф	08/21/14 08:39	08/21/14 21:20	1.00
Acenaphthene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Fluorene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Phenanthrene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Anthracene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Fluoranthene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Pyrene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Benzo (a) anthracene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Chrysene	ND	0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Client Sample ID: GEI-B7 (13-14')

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Date Collected: 08/11/14 08:45 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-21

Matrix: Soil

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (b) fluoranthene	ND		0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Benzo (k) fluoranthene	ND		0.0197		mg/kg dry	φ	08/21/14 08:39	08/21/14 21:20	1.00
Benzo (a) pyrene	ND		0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0197		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Dibenzo (a,h) anthracene	ND		0.0118		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:20	1.00
Benzo (ghi) perylene	ND		0.0197		mg/kg dry	₩	08/21/14 08:39	08/21/14 21:20	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	67.4		36.3 - 152				08/21/14 08:39	08/21/14 21:20	1.00
2-FBP	65.0		30.2 - 135				08/21/14 08:39	08/21/14 21:20	1.00
p-Terphenyl-d14	118		65.1 - 134				08/21/14 08:39	08/21/14 21:20	1.00

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		41	mg/kg dry	₩	08/15/14 11:27	08/16/14 01:08	1.0
Diesel Range Hydrocarbons	ND		100	mg/kg dry	₩	08/15/14 11:27	08/16/14 01:08	1.0
Heavy Oil Range Hydrocarbons	ND		100	mg/kg dry	₩	08/15/14 11:27	08/16/14 01:08	1.0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-BFB (FID)	94.7		50 - 150			08/15/14 11:27	08/16/14 01:08	1.0
2-FBP	98.8		50 - 150			08/15/14 11:27	08/16/14 01:08	1.0
p-Terphenyl-d14	110		50 ₋ 150			08/15/14 11:27	08/16/14 01:08	1.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.41		1.36		mg/kg dry	<u> </u>	08/18/14 09:11	08/27/14 16:01	1.00
Cadmium	ND		0.217		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:01	1.00
Chromium	15.1		0.543		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:01	1.00
Lead	3.71		1.36		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:01	1.00

Method: EPA 7471B - Total Metals by	EPA 6010/7000 Ser	ies Methods					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	48.1	ug/kg dry	₩	08/28/14 07:10	08/28/14 15:47	1.00

Client Sample ID: GEI-B8 (14-15') Lab Sample ID: SXH0089-23 Date Collected: 08/11/14 12:15 Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 93.3

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0661		mg/kg dry	₩	08/15/14 08:49	08/15/14 14:58	1.00
Hexane	ND		0.132		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
Benzene	ND		0.0198		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
1,2-Dichloroethane (EDC)	ND		0.132		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
Trichloroethene	ND		0.0330		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
Toluene	ND		0.132		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
Tetrachloroethene	ND		0.0528		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
Ethylbenzene	ND		0.132		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
m,p-Xylene	ND		0.528		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00
o-Xylene	ND		0.264		mg/kg dry	₽	08/15/14 08:49	08/15/14 14:58	1.00

Client Sample ID: GEI-B8 (14-15')

Date Collected: 08/11/14 12:15 Date Received: 08/14/14 10:00

1,2-Dibromo-3-chloropropane

Lab Sample ID: SXH0089-23

08/15/14 16:04

Matrix: Soil

1.00

Percent Solids: 93.3

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.9	80 - 12	08/15/14 08:49	08/15/14 14:58	1.00
1,2-dichloroethane-d4	100	74.7 - 12	08/15/14 08:49	08/15/14 14:58	1.00
Toluene-d8	102	78.5 - 12	5 08/15/14 08:49	08/15/14 14:58	1.00
4-bromofluorobenzene	103	69.8 - 14	08/15/14 08:49	08/15/14 14:58	1.00

Toluene-d8	102	78.5 - 125				08/15/14 08:49	08/15/14 14:58	1.00
4-bromofluorobenzene	103	69.8 - 140				08/15/14 08:49	08/15/14 14:58	1.00
_								
Method: EPA 8011 - EDB by EPA	Method 8011							
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	1.01		ug/kg dry	#	08/15/14 10:04	08/15/14 16:04	1.00

1.01

ug/kg dry

08/15/14 10:04

ND

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9.46		ug/kg dry	\$	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1221	ND		9.46		ug/kg dry	₽	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1232	ND		9.46		ug/kg dry	₩	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1242	ND		9.46		ug/kg dry	₽	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1248	ND		9.46		ug/kg dry	₩	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1254	ND		9.46		ug/kg dry	₩	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1260	ND		9.46		ug/kg dry	₽	08/19/14 08:36	08/20/14 12:49	1.00
PCB-1268	ND		9.46		ug/kg dry	₽	08/19/14 08:36	08/20/14 12:49	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	100		46.2 - 210				08/19/14 08:36	08/20/14 12:49	1.00
Decachlorobiphenyl	119		65.6 - 186				08/19/14 08:36	08/20/14 12:49	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 21:43	1.00
2-Methylnaphthalene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
1-Methylnaphthalene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 21:43	1.00
Acenaphthylene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Acenaphthene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Fluorene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 21:43	1.00
Phenanthrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Anthracene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Fluoranthene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Pyrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Benzo (a) anthracene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Chrysene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Benzo (b) fluoranthene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Benzo (k) fluoranthene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Benzo (a) pyrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Dibenzo (a,h) anthracene	ND		0.0120		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Benzo (ghi) perylene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 21:43	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5	51.8		36.3 - 152				08/21/14 08:39	08/21/14 21:43	1.00
2-FBP	55.4		30.2 - 135				08/21/14 08:39	08/21/14 21:43	1.00
p-Terphenyl-d14	103		65.1 - 134				08/21/14 08:39	08/21/14 21:43	1.00

PCB-1016

Client Sample ID: GEI-B8 (14-15')

Date Collected: 08/11/14 12:15 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-23

Matrix: Soil

Percent Solids: 93.3

Method: NWTPH-HCID - Hydro	carbon Identifica	tion by NW	TPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		36		mg/kg dry	₩	08/15/14 11:27	08/16/14 01:32	1.0
Diesel Range Hydrocarbons	ND		90		mg/kg dry	₩	08/15/14 11:27	08/16/14 01:32	1.0
Heavy Oil Range Hydrocarbons	ND		90		mg/kg dry	≎	08/15/14 11:27	08/16/14 01:32	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	92.4		50 - 150				08/15/14 11:27	08/16/14 01:32	1.0
2-FBP	99.8		50 ₋ 150				08/15/14 11:27	08/16/14 01:32	1.0
p-Terphenyl-d14	108		50 ₋ 150				08/15/14 11:27	08/16/14 01:32	1.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.86		1.22		mg/kg dry	\	08/18/14 09:11	08/27/14 16:14	1.00
Cadmium	ND		0.195		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:14	1.00
Chromium	9.40		0.487		mg/kg dry	₩	08/18/14 09:11	08/27/14 16:14	1.00
Lead	3.81		1.22		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:14	1.00

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Serie	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		36.8		ug/kg dry	₩	08/28/14 07:10	08/28/14 15:49	1.00

Client Sample ID: GEI-B9 (13-14')

Lab Sample ID: SXH0089-25

Date Collected: 08/11/14 14:10

Matrix: Soil
Date Received: 08/14/14 10:00

Percent Solids: 96.5

Method: EPA 8260C - Volatile Analyte	•	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0490		mg/kg dry	<u> </u>	08/15/14 08:49	08/15/14 15:20	1.00
Hexane	ND		0.0980		mg/kg dry	₩	08/15/14 08:49	08/15/14 15:20	1.00
Benzene	ND		0.0147		mg/kg dry	₽	08/15/14 08:49	08/15/14 15:20	1.00
1,2-Dichloroethane (EDC)	ND		0.0980		mg/kg dry	₽	08/15/14 08:49	08/15/14 15:20	1.00
Trichloroethene	ND		0.0245		mg/kg dry	₽	08/15/14 08:49	08/15/14 15:20	1.00
Toluene	ND		0.0980		mg/kg dry	₩	08/15/14 08:49	08/15/14 15:20	1.00
Tetrachloroethene	ND		0.0392		mg/kg dry	Φ.	08/15/14 08:49	08/15/14 15:20	1.00
Ethylbenzene	ND		0.0980		mg/kg dry	₩	08/15/14 08:49	08/15/14 15:20	1.00
m,p-Xylene	ND		0.392		mg/kg dry	₩	08/15/14 08:49	08/15/14 15:20	1.00
o-Xylene	ND		0.196		mg/kg dry	φ.	08/15/14 08:49	08/15/14 15:20	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		80 - 120				08/15/14 08:49	08/15/14 15:20	1.00
1,2-dichloroethane-d4	100		74.7 - 120				08/15/14 08:49	08/15/14 15:20	1.00
Toluene-d8	101		78.5 - 125				08/15/14 08:49	08/15/14 15:20	1.00
4-bromofluorobenzene	101		69.8 - 140				08/15/14 08:49	08/15/14 15:20	1.00
Method: EPA 8011 - EDB by E	EPA Method 8011								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.922		ug/kg dry	₽	08/15/14 10:04	08/15/14 16:19	1.00
1,2-Dibromo-3-chloropropane	ND		0.922		ug/kg dry	₩	08/15/14 10:04	08/15/14 16:19	1.00
- Method: EPA 8082A - Polychlo	orinated Bipheny	s by EPA I	Method 8082						
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

TestAmerica Spokane

08/19/14 20:32

10.1

ND

ug/kg dry

08/19/14 08:36

1.00

Date Collected: 08/11/14 14:10 Date Received: 08/14/14 10:00

Client Sample ID: GEI-B9 (13-14')

Lab Sample ID: SXH0089-25

Percent Solids: 96.5

עג	Sample	יטו.	3XH0009-25
			Matrix: Soil

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		10.1		ug/kg dry	*	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1232	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1242	ND		10.1		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1248	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1254	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1260	ND		10.1		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:32	1.00
PCB-1268	ND		10.1		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:32	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TCX	127	-	46.2 - 210				08/19/14 08:36	08/19/14 20:32	1.00
Decachlorobiphenyl	121		65.6 - 186				08/19/14 08:36	08/19/14 20:32	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0185		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:05	1.00
2-Methylnaphthalene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
1-Methylnaphthalene	ND		0.0185		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:05	1.00
Acenaphthylene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Acenaphthene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Fluorene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Phenanthrene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Anthracene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Fluoranthene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Pyrene	ND		0.0185		mg/kg dry	φ	08/21/14 08:39	08/21/14 22:05	1.00
Benzo (a) anthracene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Chrysene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Benzo (b) fluoranthene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Benzo (k) fluoranthene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Benzo (a) pyrene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0185		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:05	1.00
Dibenzo (a,h) anthracene	ND		0.0111		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:05	1.00
Benzo (ghi) perylene	ND		0.0185		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:05	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	78.2	-	36.3 - 152				08/21/14 08:39	08/21/14 22:05	1.00
2-FBP	75.2		30.2 - 135				08/21/14 08:39	08/21/14 22:05	1.00
p-Terphenyl-d14	118		65.1 - 134				08/21/14 08:39	08/21/14 22:05	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		34		mg/kg dry	\	08/15/14 11:27	08/16/14 01:56	1.0
Diesel Range Hydrocarbons	ND		85		mg/kg dry	₽	08/15/14 11:27	08/16/14 01:56	1.0
Heavy Oil Range Hydrocarbons	ND		85		mg/kg dry	₩	08/15/14 11:27	08/16/14 01:56	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	95.1		50 - 150				08/15/14 11:27	08/16/14 01:56	1.0
2-FBP	102		50 - 150				08/15/14 11:27	08/16/14 01:56	1.0
p-Terphenyl-d14	112		50 ₋ 150				08/15/14 11:27	08/16/14 01:56	1.0

Client Sample ID: GEI-B9 (13-14')

Date Collected: 08/11/14 14:10

Lab Sample ID: SXH0089-25

Matrix: Soil

Percent Solids: 96.5

Date Received: 08/14/14 10:00
Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.92		1.26		mg/kg dry	₩	08/18/14 09:11	08/27/14 16:18	1.00
Cadmium	ND		0.201		mg/kg dry	₩	08/18/14 09:11	08/27/14 16:18	1.00
Chromium	9.33		0.503		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:18	1.00
Lead	3.48		1.26		mg/kg dry	₽	08/18/14 09:11	08/27/14 16:18	1.00

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Series	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	<u> </u>	08/28/14 07:10	08/28/14 15:52	1.00

Client Sample ID: Duplicate 1

Date Collected: 08/11/14 08:00 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-26

Matrix: Soil Percent Solids: 96.4

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	0.0534	mg/kg dry	\	08/15/14 08:49	08/15/14 15:43	1.00
Hexane	ND	0.107	mg/kg dry	₽	08/15/14 08:49	08/15/14 15:43	1.00
Benzene	ND	0.0160	mg/kg dry	₩	08/15/14 08:49	08/15/14 15:43	1.00
1,2-Dichloroethane (EDC)	ND	0.107	mg/kg dry	₽	08/15/14 08:49	08/15/14 15:43	1.00
Trichloroethene	ND	0.0267	mg/kg dry	₩	08/15/14 08:49	08/15/14 15:43	1.00
Toluene	ND	0.107	mg/kg dry	☼	08/15/14 08:49	08/15/14 15:43	1.00
Tetrachloroethene	ND	0.0427	mg/kg dry	₩	08/15/14 08:49	08/15/14 15:43	1.00
Ethylbenzene	ND	0.107	mg/kg dry	☼	08/15/14 08:49	08/15/14 15:43	1.00
m,p-Xylene	ND	0.427	mg/kg dry	₩	08/15/14 08:49	08/15/14 15:43	1.00
o-Xylene	ND	0.214	mg/kg dry	₽	08/15/14 08:49	08/15/14 15:43	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		80 - 120	08/15/14 08:49	08/15/14 15:43	1.00
1,2-dichloroethane-d4	99.5		74.7 - 120	08/15/14 08:49	08/15/14 15:43	1.00
Toluene-d8	103		78.5 - 125	08/15/14 08:49	08/15/14 15:43	1.00
4-bromofluorobenzene	102		69.8 - 140	08/15/14 08:49	08/15/14 15:43	1.00

Method: EPA 8011 - EDB by EPA I	Method 8011						
Analyte	Result	Qualifier	RL	MDL	Unit D	Prepared	Analyzed
4.0.D'h					. //	00/45/44 40 04	00/45/44 40 00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.857		ug/kg dry	\	08/15/14 10:04	08/15/14 16:33	1.00
1,2-Dibromo-3-chloropropane	ND		0.857		ug/kg dry	₽	08/15/14 10:04	08/15/14 16:33	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		8.96		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1221	ND		8.96		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1232	ND		8.96		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1242	ND		8.96		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1248	ND		8.96		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1254	ND		8.96		ug/kg dry	₽	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1260	ND		8.96		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:53	1.00
PCB-1268	ND		8.96		ug/kg dry	₩	08/19/14 08:36	08/19/14 20:53	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TCX	120		46.2 - 210	08/19/14 08:36	08/19/14 20:53	1.00
Decachlorobiphenyl	122		65.6 - 186	08/19/14 08:36	08/19/14 20:53	1.00

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

Arsenic

Cadmium

Lead

Analyte

Mercury

Chromium

Client Sample ID: Duplicate 1

Date Collected: 08/11/14 08:00 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-26

Matrix: Soil

Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Naphthalene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
2-Methylnaphthalene	ND		0.0200		mg/kg dry	⇔	08/21/14 08:39	08/21/14 22:27	1.0
1-Methylnaphthalene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Acenaphthylene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Acenaphthene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Fluorene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Phenanthrene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Anthracene	ND		0.0200		mg/kg dry	⇔	08/21/14 08:39	08/21/14 22:27	1.0
Fluoranthene	ND		0.0200		mg/kg dry	⇔	08/21/14 08:39	08/21/14 22:27	1.0
Pyrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:27	1.0
Benzo (a) anthracene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:27	1.0
Chrysene	ND		0.0200		mg/kg dry	≎	08/21/14 08:39	08/21/14 22:27	1.0
Benzo (b) fluoranthene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:27	1.0
Benzo (k) fluoranthene	ND		0.0200		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Benzo (a) pyrene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:27	1.0
Indeno (1,2,3-cd) pyrene	ND		0.0200		mg/kg dry	Φ	08/21/14 08:39	08/21/14 22:27	1.0
Dibenzo (a,h) anthracene	ND		0.0120		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:27	1.0
Benzo (ghi) perylene	ND		0.0200		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:27	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Nitrobenzene-d5	84.6		36.3 - 152				08/21/14 08:39	08/21/14 22:27	1.0
2-FBP	81.8		30.2 - 135				08/21/14 08:39	08/21/14 22:27	1.0
p-Terphenyl-d14	110		65.1 - 134				08/21/14 08:39	08/21/14 22:27	1.0
Method: NWTPH-HCID - Hydro	carbon Identifica	ation by NV	VTPH-HCID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Hydrocarbons	ND		34		mg/kg dry	₩	08/15/14 11:27	08/16/14 02:20	1.
Diesel Range Hydrocarbons	ND		86		mg/kg dry	₩	08/15/14 11:27	08/16/14 02:20	1.
Heavy Oil Range Hydrocarbons	ND		86		mg/kg dry	₩	08/15/14 11:27	08/16/14 02:20	1.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-BFB (FID)	91.9		50 - 150				08/15/14 11:27	08/16/14 02:20	1.
2-FBP	97.5		50 - 150				08/15/14 11:27	08/16/14 02:20	1.
p-Terphenyl-d14	109		50 - 150				08/15/14 11:27	08/16/14 02:20	1
Method: EPA 6010C - Metals C	ontent by EPA 6	010/7000 S	eries Methods.	Prep by I	EPA 3050B				

08/22/14 12:47

08/22/14 12:47

08/22/14 12:47

08/22/14 12:47

Analyzed

08/28/14 15:54

08/21/14 14:35

08/21/14 14:35

08/21/14 14:35

08/21/14 14:35

Prepared

08/28/14 07:10

₩

D

1.25

0.199

0.499

1.25

RL

43.9

6.50

ND

15.2

1.40

ND

Result Qualifier

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

mg/kg dry

mg/kg dry

mg/kg dry

mg/kg dry

ug/kg dry

MDL Unit

1.00

1.00

1.00

1.00

Dil Fac

1.00

Client Sample ID: Duplicate 2

Lab Sample ID: SXH0089-27

Matrix: Soil

ds: 91.9

Date Collected: 08/11/14 08:00 Date Received: 08/14/14 10:00								Ma ⁻ Percent Sol	
Method: EPA 8260C - Volatile C	Organic Compou	ınds by EPA	Methods 5035	/8260C					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Methyl tert-butyl ether	ND		0.0740		mg/kg dry	₩	08/15/14 08:49	08/15/14 16:05	_
Hexane	ND		0.148		mg/kg dry	☼	08/15/14 08:49	08/15/14 16:05	
_						V-V			

Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	0.0740		mg/kg dry	<u></u>	08/15/14 08:49	08/15/14 16:05	1.00
Hexane	ND	0.148		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
Benzene	ND	0.0222		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
1,2-Dichloroethane (EDC)	ND	0.148		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
Trichloroethene	ND	0.0370		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
Toluene	ND	0.148		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
Tetrachloroethene	ND	0.0592		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
Ethylbenzene	ND	0.148		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
m,p-Xylene	ND	0.592		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00
o-Xylene	ND	0.296		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:05	1.00

Surrogate	%Recovery	Qualifier L	imits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103	8	0 - 120	08/15/14 08:49	08/15/14 16:05	1.00
1,2-dichloroethane-d4	102	74.	7 - 120	08/15/14 08:49	08/15/14 16:05	1.00
Toluene-d8	103	78.	5 - 125	08/15/14 08:49	08/15/14 16:05	1.00
4-bromofluorobenzene	101	69.	8 - 140	08/15/14 08:49	08/15/14 16:05	1.00

Method: EPA 8011 - EDB by EPA I	Method 8011								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.08		ug/kg dry	₩	08/15/14 10:04	08/15/14 16:47	1.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		8.86		ug/kg dry	₩	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1221	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1232	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1242	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1248	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1254	ND		8.86		ug/kg dry	☼	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1260	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00
PCB-1268	ND		8.86		ug/kg dry	₽	08/19/14 08:36	08/19/14 21:14	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TCX	99.1		46.2 - 210	08/19/14 08:36	08/19/14 21:14	1.00
Decachlorobiphenyl	114		65.6 - 186	08/19/14 08:36	08/19/14 21:14	1.00

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0198		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:50	1.00
2-Methylnaphthalene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
1-Methylnaphthalene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Acenaphthylene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Acenaphthene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Fluorene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Phenanthrene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Anthracene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Fluoranthene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Pyrene	ND		0.0198		mg/kg dry	ф	08/21/14 08:39	08/21/14 22:50	1.00
Benzo (a) anthracene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Chrysene	ND		0.0198		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:50	1.00
Benzo (b) fluoranthene	ND		0.0198		mg/kg dry		08/21/14 08:39	08/21/14 22:50	1.00

2

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Client Sample ID: Duplicate 2

Lab Sample ID: SXH0089-27

Matrix: Soil

Percent Solids: 91.9

Date Collected: 08/11/14 08:00

Date Received: 08/14/14 10:00

P

Method: EPA 8270D - Polyn

Method: EPA 8270D - Polynuc	clear Aromatic Co	mpounds I	oy GC/MS with S	Selected	Ion Monito	ring (Continued)		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (k) fluoranthene	ND		0.0198		mg/kg dry	*	08/21/14 08:39	08/21/14 22:50	1.00
Benzo (a) pyrene	ND		0.0198		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:50	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Dibenzo (a,h) anthracene	ND		0.0119		mg/kg dry	₩	08/21/14 08:39	08/21/14 22:50	1.00
Benzo (ghi) perylene	ND		0.0198		mg/kg dry	₽	08/21/14 08:39	08/21/14 22:50	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79.6		36.3 - 152				08/21/14 08:39	08/21/14 22:50	1.00
2-FBP	82.6		30.2 _ 135				08/21/14 08:39	08/21/14 22:50	1.00
p-Terphenyl-d14	111		65.1 - 134				08/21/14 08:39	08/21/14 22:50	1.00

Method: NWTPH-HCID - Hydro	carbon Identification by N	WTPH-HCID					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND ND	37	mg/kg dry	\	08/15/14 11:27	08/16/14 02:44	1.0
Diesel Range Hydrocarbons	ND	92	mg/kg dry	₩	08/15/14 11:27	08/16/14 02:44	1.0
Heavy Oil Range Hydrocarbons	ND	92	mg/kg dry	₩	08/15/14 11:27	08/16/14 02:44	1.0
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4 DED (EID)	07.0				00/45/44 44:07	00/40/44 00:44	

Surrogate	%Recovery Quaimer	Limits	Prepared	Analyzea	DII Fac
4-BFB (FID)	87.8	50 - 150	08/15/14 11:27	08/16/14 02:44	1.0
2-FBP	94.7	50 ₋ 150	08/15/14 11:27	08/16/14 02:44	1.0
p-Terphenyl-d14	104	50 - 150	08/15/14 11:27	08/16/14 02:44	1.0
-					

Method: EPA 6010C - Me	etals Content by EPA 6	Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.40		1.37		mg/kg dry	₽	08/21/14 14:35	08/27/14 16:22	1.00
Cadmium	ND		0.220		mg/kg dry	₽	08/21/14 14:35	08/27/14 16:22	1.00
Chromium	8.83		0.550		mg/kg dry	₽	08/21/14 14:35	08/27/14 16:22	1.00
Lead	3.11		1.37		mg/kg dry	₽	08/21/14 14:35	08/27/14 16:22	1.00

Method: EPA 7471B - Total Metals	by EPA 6010	/7000 Serie	s Methods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		49.0		ug/kg dry	<u> </u>	08/28/14 07:10	08/28/14 15:56	1.00

Client Sample ID: HWA-MW1-Composite Lab Sample ID: SXH0089-28

 Date Collected: 08/12/14 14:45
 Matrix: Soil

 Date Received: 08/14/14 10:00
 Percent Solids: 94

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0343		mg/kg dry	<u></u>	08/15/14 08:49	08/15/14 16:27	1.00
Benzene	ND		0.0171		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
Toluene	ND		0.114		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
Ethylbenzene	ND		0.114		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
m,p-Xylene	ND		0.457		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
o-Xylene	ND		0.229		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
1,2-Dichloroethane (EDC)	ND		0.114		mg/kg dry	₽	08/15/14 08:49	08/15/14 16:27	1.00
Xylenes (total)	ND		0.686		mg/kg dry	₩	08/15/14 08:49	08/15/14 16:27	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.2		80 - 120				08/15/14 08:49	08/15/14 16:27	1.00
1,2-dichloroethane-d4	101		74.7 - 120				08/15/14 08:49	08/15/14 16:27	1.00

Client Sample Results

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

Client Sample ID: HWA-MW1-Composite Lab Sample ID: SXH0089-28

Date Collected: 08/12/14 14:45 Date Received: 08/14/14 10:00 . Matrix: Soil

TestAmerica Job ID: SXH0089

Percent Solids: 94

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
Toluene-d8	102		78.5 - 125	08/15/14 08	08/15/14 16:27	1.00
4-bromofluorobenzene	101		69.8 - 140	08/15/14 08	:49 08/15/14 16:27	1.00

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCII

motrica: itti ii iicib iiyarcaa	i bon identinodile	ii by itti ii ii iioib						
Analyte	Result Qu	ualifier RL	MDL	Unit [D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	33		mg/kg dry	\$	08/15/14 11:27	08/16/14 03:08	1.0
Diesel Range Hydrocarbons	ND	83	1	mg/kg dry	‡	08/15/14 11:27	08/16/14 03:08	1.0
Heavy Oil Range Hydrocarbons	ND	83	1	mg/kg dry	‡	08/15/14 11:27	08/16/14 03:08	1.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	89.1		50 - 150	08/15/14 11:27	08/16/14 03:08	1.0
2-FBP	97.0		50 ₋ 150	08/15/14 11:27	08/16/14 03:08	1.0
p-Terphenyl-d14	108		50 ₋ 150	08/15/14 11:27	08/16/14 03:08	1.0

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

	,								
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.33		1.22	m	ng/kg dry	₩	08/21/14 14:35	08/27/14 16:25	1.00
Cadmium	ND		0.195	m	ng/kg dry	₽	08/21/14 14:35	08/27/14 16:25	1.00
Chromium	11.2		0.488	m	ng/kg dry	₽	08/21/14 14:35	08/27/14 16:25	1.00
Lead	3.13		1.22	m	ng/kg dry	\$	08/21/14 14:35	08/27/14 16:25	1.00

Method: EPA 7471B - Total	Metals by EPA 6010/70	000 Series Methods

Analyte	Result Qualifie		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	37.9		ug/kg dry	₩	08/28/14 07:10	08/28/14 15:59	1.00

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Lab Sample ID: 14H0077-BLK1

Matrix: Soil

Analysis Batch: 14H0077

Client Sample ID: Method Blank Prep Type: Total

Prep Batch: 14H0077_P

Blank Blank Result Qualifier MDL Unit RLD Prepared Analyzed Dil Fac Analyte Methyl tert-butyl ether ND 0.0300 mg/kg wet 08/15/14 08:49 08/15/14 10:29 1.00 mg/kg wet Benzene ND 0.0150 08/15/14 08:49 08/15/14 10:29 1.00 Toluene ND 0.100 mg/kg wet 08/15/14 08:49 08/15/14 10:29 1.00 Ethylbenzene ND 0.100 mg/kg wet 08/15/14 08:49 08/15/14 10:29 1.00 m,p-Xylene ND 0.400 mg/kg wet 08/15/14 08:49 08/15/14 10:29 1.00 o-Xylene ND 0.200 mg/kg wet 08/15/14 08:49 08/15/14 10:29 1.00 ND 1,2-Dichloroethane (EDC) 0.100 08/15/14 08:49 08/15/14 10:29 1.00 mg/kg wet Xylenes (total) ND 0.600 08/15/14 08:49 08/15/14 10:29 1.00 mg/kg wet

Blank Blank

	Diami	Diam.				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		80 - 120	08/15/14 08:49	08/15/14 10:29	1.00
1,2-dichloroethane-d4	101		74.7 - 120	08/15/14 08:49	08/15/14 10:29	1.00
Toluene-d8	101		78.5 - 125	08/15/14 08:49	08/15/14 10:29	1.00
4-bromofluorobenzene	99.8		69.8 - 140	08/15/14 08:49	08/15/14 10:29	1.00

Lab Sample ID: 14H0077-BS1

Matrix: Soil

Analysis Batch: 14H0077

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 14H0077_P

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methyl tert-butyl ether	0.500	0.484		mg/kg wet		96.8	60 - 140	
Benzene	0.500	0.475		mg/kg wet		95.0	75.8 - 123	
Toluene	0.500	0.496		mg/kg wet		99.2	76.6 - 125	
Ethylbenzene	0.500	0.496		mg/kg wet		99.1	77.3 - 121	
m,p-Xylene	0.500	0.498		mg/kg wet		99.5	77.7 - 124	
o-Xylene	0.500	0.506		mg/kg wet		101	76.7 - 129	
Naphthalene	0.500	0.399		mg/kg wet		79.8	55.1 - 142	
Xylenes (total)	1.00	1.00		mg/kg wet		100	76.5 - 124	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane	103		80 - 120
1,2-dichloroethane-d4	104		74.7 - 120
Toluene-d8	101		78.5 - 125
4-bromofluorobenzene	97.3		69.8 - 140

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C

Lab Sample ID: 14H0077-BLK1

Matrix: Soil

Analysis Batch: 14H0077

Client Sample ID: Method Blank
Prep Type: Total

Prep Batch: 14H0077_P

ı		Blank	Blank							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Methyl tert-butyl ether	ND		0.0500		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
İ	Hexane	ND		0.100		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
١	Benzene	ND		0.0150		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
İ	1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
l	Trichloroethene	ND		0.0250		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00

TestAmerica Spokane

Page 32 of 58

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3

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6

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Client: Geo Engineers - Spokane

TestAmerica Job ID: SXH0089

Project/Site: 0504-101-01

Method: EPA 8260C - Volatile Organic Compounds by EPA Methods 5035/8260C (Continued)

Lab Sample ID: 14H0077-BLK1

Matrix: Soil

Analysis Batch: 14H0077

Client Sample ID: Method Blank **Prep Type: Total**

Prep Batch: 14H0077_P

	Blank	Blank							_
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.100		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
Tetrachloroethene	ND		0.0400		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
Ethylbenzene	ND		0.100		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
m,p-Xylene	ND		0.400		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00
o-Xylene	ND		0.200		mg/kg wet		08/15/14 08:49	08/15/14 10:29	1.00

Blank Blank

	DIdIIK	DIAIIK				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		80 - 120	08/15/14 08:49	08/15/14 10:29	1.00
1,2-dichloroethane-d4	101		74.7 - 120	08/15/14 08:49	08/15/14 10:29	1.00
Toluene-d8	101		78.5 - 125	08/15/14 08:49	08/15/14 10:29	1.00
4-bromofluorobenzene	99.8		69.8 - 140	08/15/14 08:49	08/15/14 10:29	1.00

Lab Sample ID: 14H0077-BS1

Matrix: Soil

Analysis Batch: 14H0077

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 14H0077_P

•	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Methyl tert-butyl ether	0.500	0.484		mg/kg wet		96.8	60 - 140
Hexane	0.500	0.486		mg/kg wet		97.2	77 - 130
Benzene	0.500	0.475		mg/kg wet		95.0	75.8 - 123
1,2-Dichloroethane (EDC)	0.500	0.516		mg/kg wet		103	71.1 - 142
Trichloroethene	0.500	0.488		mg/kg wet		97.6	78.5 - 134
Toluene	0.500	0.496		mg/kg wet		99.2	76.6 - 125
Tetrachloroethene	0.500	0.512		mg/kg wet		102	80 - 127
Ethylbenzene	0.500	0.496		mg/kg wet		99.1	77.3 - 121
m,p-Xylene	0.500	0.498		mg/kg wet		99.5	77.7 - 124
o-Xvlene	0.500	0.506		ma/ka wet		101	76.7 - 129

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane	103		80 - 120
1,2-dichloroethane-d4	104		74.7 - 120
Toluene-d8	101		78.5 - 125
4-bromofluorobenzene	97.3		69.8 - 140

Method: EPA 8011 - EDB by EPA Method 8011

Lab Sample ID: 14H0079-BLK1

Matrix: Soil

Analysis Batch: 14H0079

Client Sample ID: Method Blank Prep Type: Total

Prep Batch: 14H0079_P

		Blank							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND ND		1.00		ug/kg wet		08/15/14 10:04	08/15/14 12:29	1.00

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

TestAmerica Job ID: SXH0089

%Rec.

Method: EPA 8011 - EDB by EPA Method 8011 (Continued)

Lab Sample ID: 14H0079-BS1 **Client Sample ID: Lab Control Sample**

Matrix: Soil Prep Type: Total Analysis Batch: 14H0079 Prep Batch: 14H0079_P

LCS LCS

Spike Added Result Qualifier Limits Analyte Unit %Rec D 60 - 140 1,2-Dibromoethane 5.00 3.42 ug/kg wet 68.5

Lab Sample ID: 14H0079-BS2 **Client Sample ID: Lab Control Sample**

Matrix: Soil

Prep Type: Total Analysis Batch: 14H0079 Prep Batch: 14H0079_P

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1,2-Dibromoethane 5.00 4.68 ug/kg wet 93.6 60 - 140

Lab Sample ID: 14H0079-MS1 **Client Sample ID: Duplicate 2**

Matrix: Soil

Prep Type: Total Analysis Batch: 14H0079 Prep Batch: 14H0079_P

Sample Sample Spike Matrix Spike Matrix Spike %Rec. Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,2-Dibromoethane ND 4.84 5.16 Ü 107 60 - 140 ug/kg dry

Lab Sample ID: 14H0079-MSD1 Client Sample ID: Duplicate 2 **Prep Type: Total**

Matrix: Soil

Analysis Batch: 14H0079

Prep Batch: 14H0079 P Sample Sample Spike Itrix Spike Dup Matrix Spike Dup %Rec. RPD Result Qualifier Result Qualifier Analyte Added %Rec Limits Limit ND 6.56 7.19 R2 110 1,2-Dibromoethane ug/kg dry 60 - 140 32.9 20

Method: EPA 8082A - Polychlorinated Biphenyls by EPA Method 8082

Lab Sample ID: 14H0093-BLK1 Client Sample ID: Method Blank

Matrix: Soil Prep Type: Total Analysis Batch: 14H0093 Prep Batch: 14H0093_P Rlank Rlank

	Віапк	Biank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1221	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1232	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1242	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1248	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1254	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1260	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
PCB-1268	ND		10.0		ug/kg wet		08/19/14 08:36	08/19/14 14:54	1.00
The state of the s									

	Dialik	DIAIIK				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TCX	103		46.2 - 210	08/19/14 08:36	08/19/14 14:54	1.00
Decachlorobiphenyl	112		65.6 - 186	08/19/14 08:36	08/19/14 14:54	1.00

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Method: EPA 8082A - Polychlorinated Biphenyls by EPA Method 8082 (Continued)

Lab Sample ID: 14H0093-BLK2 Client Sample ID: Method Blank **Matrix: Soil Prep Type: Total** Analysis Batch: 14H0093 Prep Batch: 14H0093_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1221	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1232	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1242	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1248	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1254	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1260	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00
PCB-1268	ND		10.0		ug/kg wet		08/19/14 08:36	08/20/14 12:28	1.00

	Blank	Blank				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TCX	109		46.2 - 210	08/19/14 08:36	08/20/14 12:28	1.00
Decachlorobiphenyl	147		65.6 - 186	08/19/14 08:36	08/20/14 12:28	1.00

Lab Sample ID: 14H0093-BS1 **Client Sample ID: Lab Control Sample Matrix: Soil Prep Type: Total**

Analysis Batch: 14H0093 Prep Batch: 14H0093_P

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
PCB-1016	 33.3	40.9		ug/kg wet	_	123	44.4 - 180		_
PCB-1260	33.3	41.0		ug/kg wet		123	60.3 - 169		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
TCX	112		46.2 - 210
Decachlorobiphenyl	114		65.6 - 186

Client Sample ID: Lab Control Sample

Lab Sample ID: 14H0093-BS2

Matrix: Soil

TCX

Analysis Batch: 14H0093 Prep Batch: 14H0093_P

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
PCB-1016	 33.3	38.7		ug/kg wet	_	116	44.4 - 180		_
PCB-1260	33.3	38.2		ug/kg wet		115	60.3 - 169		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
TCX	107		46.2 - 210
Decachlorobiphenyl	111		65.6 - 186

110

Client Sample ID: GEI-MW1 (12.5-13.5') Lab Sample ID: 14H0093-MS1

Matrix: Soil

Analysis Batch: 14H0093 Prep Batch: 14H0093_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spik	e			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
PCB-1016	ND		31.4	38.0		ug/kg dry	#	121	50.6 - 145	
PCB-1260	ND		31.4	37.2		ug/kg dry	₩	119	57.6 - 120	
	Matrix Spike	Matrix Spike								
Surrogate	%Recovery	Qualifier	l imite							

TestAmerica Spokane

46.2 - 210

Prep Type: Total

Prep Type: Total

Method: EPA 8082A - Polychlorinated Biphenyls by EPA Method 8082 (Continued)

Lab Sample ID: 14H0093-MS1

Lab Sample ID: 14H0093-MSD1

Matrix: Soil

Analysis Batch: 14H0093

Matrix: Soil

Client Sample ID: GEI-MW1 (12.5-13.5')

Prep Type: Total

Prep Batch: 14H0093 P

Matrix Spike Matrix Spike

Surrogate %Recovery Qualifier Limits 65.6 - 186 Decachlorobiphenyl 112

Client Sample ID: GEI-MW1 (12.5-13.5')

Prep Type: Total

Prep Batch: 14H0093_P Analysis Batch: 14H0093 %Rec. RPD

Sample Sample Spike ıtrix Spike Dup Matrix Spike Dur Analyte Result Qualifier Result Qualifier RPD Limit Added Unit D %Rec Limits ug/kg dry ₩ PCB-1016 ND 31.5 38.5 122 50.6 - 145 1.36 40 PCB-1260 ND 31.5 38.8 M7 ug/kg dry 123 57.6 - 120 4.01 27.4

Matrix Spike Dup Matrix Spike Dup

Surrogate %Recovery Qualifier Limits TCX 105 46.2 - 210 115 65.6 - 186 Decachlorobiphenyl

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Lab Sample ID: 14H0115-BLK1 Client Sample ID: Method Blank

Matrix: Soil

Prep Type: Total Analysis Batch: 14H0115 Prep Batch: 14H0115_P Blank Blank

	Diami	Diami							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
2-Methylnaphthalene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
1-Methylnaphthalene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Acenaphthylene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Acenaphthene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Fluorene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Phenanthrene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Anthracene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Fluoranthene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Pyrene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Benzo (a) anthracene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Chrysene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Benzo (b) fluoranthene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Benzo (k) fluoranthene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Benzo (a) pyrene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Dibenzo (a,h) anthracene	ND		0.0120		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00
Benzo (ghi) perylene	ND		0.0200		mg/kg wet		08/21/14 08:39	08/21/14 16:27	1.00

Blank Blank

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
Nitrobenzene-d5	100		36.3 - 152	08/21/14 08	:39 08/21/14 16:27	1.00
2-FBP	96.2		30.2 - 135	08/21/14 08	:39 08/21/14 16:27	1.00
p-Terphenyl-d14	139	Z2	65.1 - 134	08/21/14 08	:39 08/21/14 16:27	1.00

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Lab Sample ID: 14H0115-BS1

Matrix: Soil

Analysis Batch: 14H0115

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 14H0115_P

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Naphthalene	0.267	0.203		mg/kg wet	_	76.0	62.7 - 120	
Fluorene	0.267	0.247		mg/kg wet		92.5	67.9 - 124	
Chrysene	0.267	0.249		mg/kg wet		93.5	68.2 - 132	
Indeno (1,2,3-cd) pyrene	0.267	0.273		mg/kg wet		102	52.6 - 149	

 Surrogate
 %Recovery
 Qualifier
 Limits

 Nitrobenzene-d5
 95.2
 36.3 - 152

 2-FBP
 91.6
 30.2 - 135

 p-Terphenyl-d14
 122
 65.1 - 134

Lab Sample ID: 14H0115-MS1 Client Sample ID: GEI-MW1 (12.5-13.5')

Matrix: Soil

Analysis Batch: 14H0115

Prep Type: Total

Prep Batch: 14H0115_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spil	ke			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Naphthalene	ND		0.275	0.219		mg/kg dry	₩	79.5	30 - 120	
Fluorene	ND		0.275	0.219		mg/kg dry	₩	79.5	30 - 140	
Chrysene	ND		0.275	0.241		mg/kg dry	₩	87.5	30 - 133	
Indeno (1,2,3-cd) pyrene	ND		0.275	0.242		mg/kg dry	₩	88.0	30 - 140	

	Matrix Spike	Matrix Spike	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	77.8		36.3 - 152
2-FBP	80.2		30.2 - 135
p-Terphenyl-d14	102		65.1 - 134

Lab Sample ID: 14H0115-MSD1 Client Sample ID: GEI-MW1 (12.5-13.5')

Matrix: Soil

Analysis Batch: 14H0115

Prep Type: Total
Prep Batch: 14H0115 P

ı	Analysis Daten. 14110113									i iep Date	,II. I T IIO	110_1
		Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spil	ke Dur			%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Naphthalene	ND		0.261	0.196		mg/kg dry	₩	75.0	30 - 120	11.0	35
	Fluorene	ND		0.261	0.200		mg/kg dry	₩	76.5	30 - 140	9.00	35
	Chrysene	ND		0.261	0.216		mg/kg dry	₩	82.5	30 - 133	11.0	35
	Indeno (1,2,3-cd) pyrene	ND		0.261	0.209		mg/kg dry	₩	80.0	30 - 140	14.7	35

Matrix Spike Dup	Matrix Spike Dup
------------------	------------------

Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	77.6		36.3 - 152
2-FBP	77.8		30.2 - 135
p-Terphenyl-d14	101		65.1 - 134

TestAmerica Job ID: SXH0089

Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Lab Sample ID: 14H0139-BLK1

Matrix: Soil

Analysis Batch: 14H0139

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 14H0139_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		08/25/14 13:21	08/25/14 17:08	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		08/25/14 13:21	08/25/14 17:08	1.00

Blank Blank

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	104		50 - 150	08/25/14 13:21	08/25/14 17:08	1.00
n-Triacontane-d62	106		50 - 150	08/25/14 13:21	08/25/14 17:08	1.00

Client Sample ID: Lab Control Sample

Matrix: Soil

Analysis Batch: 14H0139

Lab Sample ID: 14H0139-BS1

Prep Type: Total Prep Batch: 14H0139_P

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Diesel Range Hydrocarbons 66.7 60.8 91.2 50 - 150 mg/kg wet

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 112 50 - 150 n-Triacontane-d62 105 50 - 150

Client Sample ID: Duplicate Lab Sample ID: 14H0139-DUP1

Matrix: Soil

Analysis Batch: 14H0139

Prep Type: Total Prep Batch: 14H0139_P

Sample Sample **Duplicate Duplicate** RPD D Limit Analyte Result Qualifier Result Qualifier RPD Unit ₩ Diesel Range Hydrocarbons ND ND mg/kg dry 40 Heavy Oil Range Hydrocarbons ND ND ₽ mg/kg dry 40

Duplicate Duplicate Surrogate %Recovery Qualifier Limits o-Terphenyl 109 50 - 150 109 50 - 150 n-Triacontane-d62

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID

Lab Sample ID: 14H0081-BLK1

Matrix: Soil

Analysis Batch: 14H0081

Client Sample ID: Method Blank **Prep Type: Total**

Prep Batch: 14H0081_P

•	Blank Bla	ank				•	_
Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	40	mg/kg wet		08/15/14 11:27	08/15/14 19:53	1.00
Diesel Range Hydrocarbons	ND	100	mg/kg wet		08/15/14 11:27	08/15/14 19:53	1.00
Heavy Oil Range Hydrocarbons	ND	100	mg/kg wet		08/15/14 11:27	08/15/14 19:53	1.00

	Blank Blan	nk			
Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-BFB (FID)	93.7	50 - 150	08/15/14 11:27	08/15/14 19:53	1.00
2-FBP	94.7	50 - 150	08/15/14 11:27	08/15/14 19:53	1.00
p-Terphenyl-d14	103	50 - 150	08/15/14 11:27	08/15/14 19:53	1.00

TestAmerica Spokane

9/2/2014

Page 38 of 58

TestAmerica Job ID: SXH0089

Method: NWTPH-HCID - Hydrocarbon Identification by NWTPH-HCID (Continued)

Lab Sample ID: 14H0081-DUP1 Client Sample ID: GEI-MW2 (12-13') **Matrix: Soil Prep Type: Total** Prep Batch: 14H0081_P

Analysis Batch: 14H0081

	Sample	Sample	Duplicate	Duplicate				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Gasoline Range Hydrocarbons	5.78		 ND	R4	mg/kg dry	₩	 200	25
Diesel Range Hydrocarbons	10.5		10.4		mg/kg dry	₽	0.762	25
Heavy Oil Range Hydrocarbons	1.01		1.42	R4	mg/kg dry	₽	33.5	25

	Duplicate	Duplicate	
Surrogate	%Recovery	Qualifier	Limits
4-BFB (FID)	94.2		50 - 150
2-FBP	95.2		50 - 150
p-Terphenyl-d14	106		50 - 150

Lab Sample ID: 14H0081-DUP2 Client Sample ID: GEI-MW3 (12-13')

Matrix: Soil

Analysis Batch: 14H0081							Prep Batch: 14H	1008	31_P
	Sample	Sample	Duplicate	Duplicate					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPI)	Limit
Gasoline Range Hydrocarbons	5.16		3.27	R4	mg/kg dry	\(\phi\)	45.0	<u> </u>	25
Diesel Range Hydrocarbons	10.7		16.8	R4	mg/kg dry	₽	44.3	2	25
Heavy Oil Range Hydrocarbons	1.65		3.17	R4	mg/kg dry	≎	63.4	1	25

	Duplicate	Duplicate	
Surrogate	%Recovery	Qualifier	Limits
4-BFB (FID)	98.1		50 - 150
2-FBP	99.9		50 - 150
p-Terphenyl-d14	107		50 - 150

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

Lab Sample ID: 14H0088-BLK1 Client Sample ID: Method Blank **Matrix: Soil Prep Type: Total** Analysis Batch: 14H0088 Prep Batch: 14H0088_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.25		mg/kg wet		08/18/14 09:11	08/26/14 09:43	1.00
Cadmium	ND		0.200		mg/kg wet		08/18/14 09:11	08/26/14 09:43	1.00
Chromium	ND		0.500		mg/kg wet		08/18/14 09:11	08/26/14 09:43	1.00
Lead	ND		1.25		mg/kg wet		08/18/14 09:11	08/26/14 09:43	1.00

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Lab Sample ID: 14H0088-BS1				Client Sample ID: Lab Control Sample
Matrix: Soil				Prep Type: Total
Analysis Batch: 14H0088				Prep Batch: 14H0088_P
		Spike	LCS LCS	%Rec.

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	50.0	49.5		mg/kg wet	_	99.1	80 - 120	
Cadmium	50.0	48.9		mg/kg wet		97.8	80 - 120	
Chromium	50.0	49.9		mg/kg wet		99.7	80 - 120	
Lead	50.0	50.5		mg/kg wet		101	80 - 120	

TestAmerica Spokane

Page 39 of 58

Prep Type: Total

9/2/2014

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

Lab Sample ID: 14H0088-MS1

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_ab Sample ID: 14H0088-MS1	Client Sample ID: Matrix Spike
Matrix: Soil	Prep Type: Total
Analysis Batch: 14H0088	Prep Batch: 14H0088_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spi	ke			%Rec.	_
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	3.80		54.2	50.7		mg/kg dry	*	86.5	75 - 125	
Cadmium	0.160		54.2	48.3		mg/kg dry	₩	88.7	75 - 125	
Chromium	14.4		54.2	63.5		mg/kg dry	₩	90.5	75 - 125	
Lead	5.31		54.2	49.8		mg/kg dry	₩	82.0	75 - 125	

Lab Sample ID: 14H0088-MSD1

Analysis Batch: 14H0088

Matrix: Soil Prep Typ	e: Total	

Prep Batch: 14H0088 P

Client Sample ID: Duplicate

Client Sample ID: Matrix Spike Duplicate

•	Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spil	ke Dur			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	3.80		53.7	51.3		mg/kg dry	₩	88.4	75 - 125	1.07	20
Cadmium	0.160		53.7	49.1		mg/kg dry	₩	91.1	75 - 125	1.64	20
Chromium	14.4		53.7	57.3		mg/kg dry	₩	79.9	75 - 125	10.2	20
Lead	5.31		53.7	51.6		mg/kg dry	₩	86.2	75 - 125	3.59	20
	Arsenic Cadmium Chromium	Analyte Result Arsenic 3.80 Cadmium 0.160 Chromium 14.4	Arsenic 3.80 Cadmium 0.160 Chromium 14.4	Analyte Result Qualifier Added Arsenic 3.80 53.7 Cadmium 0.160 53.7 Chromium 14.4 53.7	Analyte Result Arsenic Qualifier Added Added Arsenic Result 53.7 51.3 Cadmium 0.160 53.7 49.1 Chromium 14.4 53.7 57.3	Analyte Result Qualifier Added San Description Result Qualifier Arsenic 3.80 53.7 51.3 Cadmium 0.160 53.7 49.1 Chromium 14.4 53.7 57.3	Analyte Result Arsenic Qualifier Added Arsenic Result Market Qualifier Unit Market Cadmium 0.160 53.7 49.1 mg/kg dry mg/kg dry Chromium 14.4 53.7 57.3 mg/kg dry	Analyte Result Arsenic Qualifier Added Arsenic Result State Arsenic Qualifier State Arsenic Added State Arsenic Result State Arsenic Qualifier State Arsenic Unit Marging Arsenic D Cadmium 0.160 53.7 49.1 mg/kg dry ** Chromium 14.4 53.7 57.3 mg/kg dry **	Analyte Result Arsenic Qualifier Added Arsenic Result State Qualifier Unit May State D May State %Rec May State Cadmium 0.160 53.7 49.1 mg/kg dry # 91.1 Chromium 14.4 53.7 57.3 mg/kg dry # 79.9	Analyte Result Arsenic Qualifier Added Arsenic Result Size Arsenic Qualifier Unit Unit Unit Unit Medical Size Arsenic D With Medical Size Arsenic With Size Arsenic Arsenic 3.80 53.7 51.3 mg/kg dry Size Arsenic With Size Arsenic	Analyte Result Arsenic Qualifier Added Arsenic Result Street Qualifier Street Unit Unit Unit Unit Unit Unit Unit Unit

Lab Sample ID: 14H0088-DUP1

Matrix: Soil

Analysis Batch: 14H0088

Prep Type: Total Prep Batch: 14H0088_P

mg/kg wet

	Sample	Sample	Duplicate	Duplicate				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	3.80		3.07	R4	mg/kg dry	\	21.1	20
Cadmium	0.160		0.134		mg/kg dry	☼	17.9	20
Chromium	14.4		12.1		mg/kg dry	₩	17.7	20
Lead	5.31		4.84		mg/kg dry	₽	9.09	20

Lab Sample ID: 14H0122-BLK1

Matrix: Soil

Lead

Analysis Batch: 14H0122

Client Sample ID: Method Blank **Prep Type: Total** Prep Batch: 14H0122_P

08/22/14 11:47

Client Sample ID: Lab Control Sample

1.00

Blank Blank Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Arsenic ND 1.25 08/21/14 14:35 08/22/14 11:47 1.00 mg/kg wet 08/22/14 11:47 Cadmium ND 0.200 mg/kg wet 08/21/14 14:35 1.00 Chromium ND 0.500 mg/kg wet 08/21/14 14:35 08/22/14 11:47 1.00 ND 08/21/14 14:35

Lab Sample ID: 14H0122-BS1

Matrix: Soil

Prep Type: Total Analysis Batch: 14H0122 Prep Batch: 14H0122_P

1.25

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	50.0	48.8		mg/kg wet	_	97.7	80 - 120		_
Cadmium	50.0	49.3		mg/kg wet		98.5	80 - 120		
Chromium	50.0	50.1		mg/kg wet		100	80 - 120		
Lead	50.0	48.9		mg/kg wet		97.7	80 - 120		

2

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

Lab Sample ID: 14H0122-MS1

Matrix: Soil

Analysis Batch: 14H0122

Client Sample ID: Duplicate 1

Prep Type: Total

Prep Batch: 14H0122_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spil	ke			%Rec.	_
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	6.50		50.9	52.5		mg/kg dry	₩	90.5	75 - 125	
Cadmium	0.0964		50.9	47.5		mg/kg dry	₩	93.2	75 - 125	
Chromium	15.2		50.9	61.1		mg/kg dry	₩	90.4	75 - 125	
Lead	1.40		50.9	45.5		mg/kg dry	₽	86.7	75 - 125	

Lab Sample ID: 14H0122-MSD1

Matrix: Soil

Analysis Batch: 14H0122

Client Sample ID: Duplicate 1

Prep Type: Total

Prep Batch: 14H0122_P

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	Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spi	ke Dur			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	6.50		51.4	54.5		mg/kg dry	₩	93.4	75 - 125	3.56	20
Cadmium	0.0964		51.4	49.4		mg/kg dry	⇔	96.0	75 - 125	4.03	20
Chromium	15.2		51.4	63.9		mg/kg dry	₽	94.9	75 - 125	4.48	20
Lead	1.40		51.4	47.2		mg/kg dry	₽	89.1	75 - 125	3.62	20
	Analyte Arsenic Cadmium Chromium	Analyte Result Arsenic 6.50 Cadmium 0.0964 Chromium 15.2	Analyte Result Result Result Qualifier Arsenic 6.50 Cadmium 0.0964 Chromium 15.2	Analyte Result Qualifier Qualifier Added Added Arsenic 6.50 51.4 Cadmium 0.0964 51.4 Chromium 15.2 51.4	Sample Analyte Sample Result Arsenic Sample Cadmium Spike Itrix Spike Dup Added Result Added Result 54.5 Cadmium 0.0964 51.4 54.5 Chromium 15.2 51.4 63.9	Analyte Result Qualifier Added Result Qualifier Arsenic 6.50 51.4 54.5 Cadmium 0.0964 51.4 49.4 Chromium 15.2 51.4 63.9	Analyte Result Qualifier Added Arsenic Result Gualifier Added Arsenic Result Gualifier Matrix Spike Dup Gualifier Matrix Spike Dup Gualifier Matrix Spike Dup Gualifier Unit Matrix Spike	Analyte Result Qualifier Added Street Result Feature Qualifier Added Street Result Feature Qualifier Matrix Spike Duy Qualifier Unit Durit D Durit <	Analyte Result Arsenic Qualifier Added Arsenic Result Spike Itrix Spike Dup Added Result Spike Dup Added Result Spike Dup Added Result Spike Dup Added Result Spike Dup Added Result Spike Dup Added Spike Spike Dup Added Spike S	Analyte Result Arsenic Qualifier Added Arsenic Result Spike Dup Added Sesult Spike Dup Spike	Analyte Result Arsenic Qualifier Added Arsenic Result Spike Dut Qualifier Unit Qualifier D WRec Unit William WRec Limits RPD RPD Cadmium 0.0964 51.4 54.5 mg/kg dry 593.4 75 - 125 3.56 Chromium 15.2 51.4 63.9 mg/kg dry 594.9 75 - 125 4.48

Lab Sample ID: 14H0122-DUP1

Matrix: Soil

Analysis Batch: 14H0122

Client Sample ID: Duplicate 1

Prep Type: Total

Prep Batch: 14H0122_P

	Sample	Sample	Duplicate	Duplicate				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	6.50		5.70		mg/kg dry	₩	13.2	20
Cadmium	0.0964		ND		mg/kg dry	₩		20
Chromium	15.2		15.9		mg/kg dry	₩	4.88	20
Lead	1.40		1.02	R4	mg/kg dry	₩	30.9	20

Lab Sample ID: 14H0160-BLK1

Matrix: Other (S)

Analysis Batch: 14H0160

Client Sample ID: Method Blank
Prep Type: Total

Prep Batch: 14H0160_P

	Blank	Blank						
Analyte	Result	Qualifier	RL MDL	. Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.25	mg/kg wet		08/27/14 13:45	08/28/14 06:51	1.00
Barium	ND		0.500	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00
Cadmium	ND		0.200	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00
Chromium	ND		0.500	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00
Lead	ND		1.25	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00
Selenium	ND		2.50	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00
Silver	ND		0.500	mg/kg wet	(08/27/14 13:45	08/28/14 06:51	1.00

Lab Sample ID: 14H0160-BS1

Matrix: Other (S)

Analysis Batch: 14H0160

Client Sample ID: Lab Control Sample

Prep Type: Total Prep Batch: 14H0160 P

7								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	50.0	49.2		mg/kg wet	_	98.4	80 - 120	
Barium	50.0	50.5		mg/kg wet		101	80 - 120	
Cadmium	50.0	50.0		mg/kg wet		100	80 - 120	
Chromium	50.0	49.7		mg/kg wet		99.5	80 - 120	
Lead	50.0	49.4		mg/kg wet		98.8	80 - 120	

TestAmerica Spokane

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Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

Lab Sample ID: 14H0160-BS1 **Client Sample ID: Lab Control Sample** Matrix: Other (S) **Prep Type: Total** Analysis Batch: 14H0160 Prep Batch: 14H0160_P Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Selenium 500 mg/kg wet 94.2 471 80 - 120 80 - 120 Silver 50.0 49.6 99.1 mg/kg wet

Lab Sample ID: 14H0160-MS1 Client Sample ID: GEI-B4 (2-3') Matrix: Other (S) **Prep Type: Total** Analysis Batch: 14H0160 Prep Batch: 14H0160_P Sample Sample Spike Matrix Spike Matrix Spike %Rec. Qualifier Added Result Qualifier Analyte Result Unit D %Rec Limits Ö Arsenic 14.3 53.4 67.8 mg/kg dry 100 75 - 125 ₽ Barium 277 53.4 349 M1 mg/kg dry 135 75 - 125 53.4 58.3 ₩ 96.4 Cadmium 6.78 mg/kg dry 75 - 125 mg/kg dry ₩ Chromium 18.4 53.4 68.9 94.5 75 - 125 ₩ 1030 865 300 Lead 53.4 M1 mg/kg dry 75 - 125 ₽ Selenium ND 534 478 mg/kg dry 89.6 75 - 125 Silver ND RL3 53.4 46 4 mg/kg dry 86.8 75 - 125

Lab Sample ID: 14H0160-MSD1 Client Sample ID: GEI-B4 (2-3') **Prep Type: Total**

Matrix: Other (S)

Analysis Batch: 14H0160 Prep Batch: 14H0160_P ıtrix Spike Dup Matrix Spike Dur %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit ₩ Arsenic 14.3 53.9 66.7 mg/kg dry 97.1 75 - 125 1.72 20 277 53.9 332 mg/kg dry ₽ 101 75 - 125 5.23 20 ₩ 6.78 53.9 58.3 mg/kg dry 95.5 75 - 125 0.039 20

Barium Cadmium 67.8 ₩ 53.9 mg/kg dry 91 4 75 - 125 20 Chromium 18 4 1 69 Lead 865 53.9 895 mg/kg dry ₩ 54.7 75 - 125 20 ₩ Selenium ND 539 486 mg/kg dry 90.1 75 _ 125 20 1.52 ₩ Silver ND RL3 53.9 45.6 mg/kg dry 84.6 75 - 125

Lab Sample ID: 14H0160-DUP1 Client Sample ID: GEI-B4 (2-3') Matrix: Other (S)

Prep Type: Total Analysis Batch: 14H0160 Prep Batch: 14H0160 P

Analysis Baton: 14110100							1 Top Batom 14110	.00
	Sample	Sample	Duplicate	Duplicate				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Arsenic	14.3		14.2		mg/kg dry	\(\partial\)	0.475	20
Barium	277		356	R4	mg/kg dry	₩	24.8	20
Cadmium	6.78		6.92		mg/kg dry	₽	2.10	20
Chromium	18.4		24.7	R4	mg/kg dry	₩	29.0	20
Lead	865		870		mg/kg dry	₽	0.552	20
Selenium	ND		ND		mg/kg dry	₽		20
Silver	ND	RL3	ND		mg/kg dry	*		20

6

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Lab Sample ID: 14H0162-BLK1 Client Sample ID: Method Blank **Matrix: Soil Prep Type: Total** Prep Batch: 14H0162 P

Analysis Batch: 14H0162 Blank Blank

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed ND 50.0 08/28/14 07:09 Mercury ug/kg wet 08/28/14 14:27

Lab Sample ID: 14H0162-BS1 Client Sample ID: Lab Control Sample **Matrix: Soil Prep Type: Total** Analysis Batch: 14H0162 Prep Batch: 14H0162_P LCS LCS Spike %Rec.

Added Analyte Result Qualifier Unit %Rec Limits Mercury 200 203 ug/kg wet 102 80 - 120

Lab Sample ID: 14H0162-MS1 Client Sample ID: GEI-B4 (2-3') **Matrix: Soil Prep Type: Total**

Analysis Batch: 14H0162 Prep Batch: 14H0162_P Matrix Spike Matrix Spike Sample Sample Spike %Rec.

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 203 230 553 M1 152 80 - 120 Mercury ug/kg dry

Lab Sample ID: 14H0162-MSD1 Client Sample ID: GEI-B4 (2-3') Matrix: Soil **Prep Type: Total**

Analysis Batch: 14H0162

Prep Batch: 14H0162 P Sample Sample Spike Itrix Spike Dup Matrix Spike Dup %Rec. RPD Result Qualifier Added Result Qualifier Analyte Limits Limit 203 186 396 104 Mercury ug/kg dry 80 120 33.1

Lab Sample ID: 14H0162-DUP1 Client Sample ID: GEI-B4 (2-3')

Matrix: Soil

Analysis Batch: 14H0162

Prep Type: Total Prep Batch: 14H0162_P Sample Sample **Duplicate Duplicate** RPD

Result Qualifier Result Qualifier RPD Limit Analyte Unit 203 R3 ug/kg dry 88.9 Mercury 529

Lab Sample ID: 14H0163-BLK1 Client Sample ID: Method Blank **Matrix: Soil**

Analysis Batch: 14H0163 Prep Batch: 14H0163 P Blank Blank

Result Qualifier RL MDL Unit Analyte Prepared Analyzed 08/28/14 07:10 ND 50.0 Mercury ug/kg wet 08/28/14 15:13

Lab Sample ID: 14H0163-BS1 Client Sample ID: Lab Control Sample **Matrix: Soil Prep Type: Total**

Analysis Batch: 14H0163

Prep Batch: 14H0163_P LCS LCS Spike %Rec. Analyte babbA Result Qualifier Unit %Rec Limits 200 195 97.5 80 - 120

Mercury ug/kg wet Client Sample ID: GEI-MW1 (12.5-13.5')

Lab Sample ID: 14H0163-MS1

Matrix: Soil Prep Type: Total Analysis Batch: 14H0163 Prep Batch: 14H0163_P Spike Matrix Spike Matrix Spike %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

₩ 102 Mercury 22.4 221 249 ug/kg dry 80 - 120

TestAmerica Spokane

9/2/2014

Prep Type: Total

Dil Fac

QC Sample Results

Client: Geo Engineers - Spokane

Lab Sample ID: 14H0163-MSD1

Project/Site: 0504-101-01

Client Sample ID: GEI-MW1 (12.5-13.5')

TestAmerica Job ID: SXH0089

Matrix: Soil

Prep Type: Total Analysis Batch: 14H0163 Prep Batch: 14H0163_P

Sample Sample Spike ıtrix Spike Dup Matrix Spike Dur %Rec. Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec ₩ 248 270 100 80 - 120 20 Mercury 22.4 ug/kg dry 8.08

Lab Sample ID: 14H0163-DUP1 Client Sample ID: GEI-MW1 (12.5-13.5')

Matrix: Soil Prep Type: Total Analysis Batch: 14H0163 Prep Batch: 14H0163_P

Sample Sample **Duplicate Duplicate** Result Qualifier Result Qualifier RPD Limit Analyte Unit D # Mercury 22.4 32.4 ug/kg dry 36.6 40

Date Collected: 08/12/14 14:45

Date Received: 08/14/14 10:00

Client Sample ID: GEI-MW1 (12.5-13.5')

Lab Sample ID: SXH0089-02

Matrix: Soil

Percent Solids: 96.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.17	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 11:14	CBW	TAL SPK
Total	Prep	EPA 3580		0.809	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 13:26	NMI	TAL SPK
Total	Prep	EPA 3550B		0.834	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 16:17	NMI	TAL SPK
Total	Prep	EPA 3550B		1.87	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 17:58	NMI	TAL SPK
Total	Prep	EPA 3580		0.99	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 21:07	NMI	TAL SPK
Total	Prep	EPA 3050B		0.971	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		2.00	14H0088	08/27/14 17:37	ICP	TAL SPK

0.943

1.00

14H0163 P

14H0163

08/28/14 07:10

08/28/14 15:15

JSP

ZZZ

Client Sample ID: GEI-MW2 (12-13')

Prep

Analysis

EPA 7471

EPA 7471B

Total

Total

Date Collected: 08/13/14 11:10 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-04

TAL SPK

TAL SPK

Percent Solids: 94.6

Matrix: Soil

Batch Ratch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total Prep GC/MS Volatiles 0.945 14H0077_P 08/15/14 08:49 CBW TAL SPK Total Analysis **EPA 8260C** 1.00 14H0077 08/15/14 11:37 CBW TAL SPK Total Prep EPA 3580 0.883 14H0079 P 08/15/14 10:04 NI TAL SPK Total Analysis EPA 8011 1.00 14H0079 08/15/14 13:41 NMI TAL SPK **EPA 3550B** 0.971 14H0093 P 08/19/14 08:36 NI TAL SPK Total Prep Total Analysis **EPA 8082A** 1.00 14H0093 08/19/14 16:38 NMI TAL SPK EPA 3550B 1.85 14H0115 P 08/21/14 08:39 NI TAL SPK Total Prep Total Analysis **EPA 8270D** 1.00 14H0115 08/21/14 18:20 NMI TAL SPK 14H0081_P FPA 3580 0.80 TAL SPK Total Prep 08/15/14 11:27 NI Total Analysis **NWTPH-HCID** 1.0 14H0081 08/15/14 21:31 NMI TAL SPK EPA 3050B 1 05 14H0088_P 08/18/14 09:11 JSP TAL SPK Total Prep Total **EPA 6010C** 1.00 14H0088 08/27/14 15:29 ICP TAL SPK Analysis EPA 7471 TAL SPK Total Prep 0.862 14H0163_P 08/28/14 07:10 JSP Total Analysis EPA 7471B 1.00 14H0163 08/28/14 15:24 ZZZ TAL SPK

Client Sample ID: GEI-MW3 (12-13')

Date Collected: 08/12/14 08:30 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-06

Matrix: Soil

Percent Solids: 93.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.13	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 11:59	CBW	TAL SPK
Total	Prep	EPA 3580		0.808	14H0079_P	08/15/14 10:04	NI	TAL SPK

Client Sample ID: GEI-MW3 (12-13')

Date Collected: 08/12/14 08:30 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-06

Matrix: Soil Percent Solids: 93.2

Lab Sample ID: SXH0089-07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 13:55	NMI	TAL SPK
Total	Prep	EPA 3550B		0.892	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 17:00	NMI	TAL SPK
Total	Prep	EPA 3550B		1.83	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 18:43	NMI	TAL SPK
Total	Prep	EPA 3580		0.86	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 21:55	NMI	TAL SPK
Total	Prep	EPA 3050B		1.00	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:33	ICP	TAL SPK
Total	Prep	EPA 7471		0.758	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:26	ZZZ	TAL SPK

Client Sample ID: GEI-B1 (2-3')

Date Collected: 08/11/14 15:10

Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 84.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.31	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 12:22	CBW	TAL SPK
Total	Prep	EPA 3580		0.990	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		5.00	14H0079	08/15/14 14:09	NMI	TAL SPK
Total	Prep	EPA 3550B		0.925	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		10.0	14H0093	08/20/14 11:49	NMI	TAL SPK
Total	Prep	EPA 3550B		6.15	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		20.0	14H0115	08/21/14 19:05	NMI	TAL SPK
Total	Prep	EPA 3550B		1.65	14H0139_P	08/25/14 13:21	MS	TAL SPK
Total	Analysis	NWTPH-Dx		20.0	14H0139	08/26/14 09:29	NMI	TAL SPK
Total	Prep	EPA 3580		2.5	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 22:19	NMI	TAL SPK
Total	Prep	EPA 3050B		1.06	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:37	ICP	TAL SPK
Total	Prep	EPA 7471		0.943	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:29	ZZZ	TAL SPK

Client Sample ID: GEI-B1 (12-13')

Date Collected: 08/11/14 15:40 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-08 Matrix: Soil

Percent Solids: 92.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.992	14H0139_P	08/25/14 13:21	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	14H0139	08/25/14 18:41	NMI	TAL SPK
Total	Prep	Wet Chem		1.00	14H0147_P	08/25/14 14:30	NI	TAL SPK
Total	Analysis	TA SOP		1.00	14H0147	08/26/14 10:36	NI	TAL SPK

Client Sample ID: GEI-B2 (13-14')

Date Collected: 08/11/14 12:20 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-10

Matrix: Soil

Percent Solids: 93.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.904	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 12:44	CBW	TAL SPK
Total	Prep	EPA 3580		0.880	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 14:24	NMI	TAL SPK
Total	Prep	EPA 3550B		0.901	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 17:42	NMI	TAL SPK
Total	Prep	EPA 3550B		1.88	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 19:28	NMI	TAL SPK
Total	Prep	EPA 3580		0.95	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 23:08	NMI	TAL SPK
Total	Prep	EPA 3050B		0.952	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:41	ICP	TAL SPK
Total	Prep	EPA 7471		0.746	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:31	ZZZ	TAL SPK

Client Sample ID: GEI-B3 (7-8')

Date Collected: 08/11/14 10:55

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-12

Matrix: Soil

Percent Solids: 95.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.08	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 13:06	CBW	TAL SPK
Total	Prep	EPA 3580		0.818	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 14:38	NMI	TAL SPK
Total	Prep	EPA 3550B		1.00	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 18:03	NMI	TAL SPK
Total	Prep	EPA 3550B		1.77	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 19:50	NMI	TAL SPK
Total	Prep	EPA 3580		0.91	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 23:32	NMI	TAL SPK
Total	Prep	EPA 3050B		0.943	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:45	ICP	TAL SPK
Total	Prep	EPA 7471		0.847	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:38	ZZZ	TAL SPK

Client Sample ID: GEI-B4 (2-3')

Date Collected: 08/11/14 16:20

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-13

Matrix: Soil

Percent Solids: 92.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 3050B		0.980	14H0160_P	08/27/14 13:45	JSP	TAL SPK
Total	Analysis	EPA 6010C		2.00	14H0160	08/28/14 08:12	ICP	TAL SPK
Total	Prep	EPA 7471		0.758	14H0162_P	08/28/14 07:09	JSP	TAL SPK

Client Sample ID: GEI-B4 (2-3')

Date Collected: 08/11/14 16:20 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-13

Matrix: Soil Percent Solids: 92.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Analysis	EPA 7471B		1.00	14H0162	08/28/14 14:29	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14I0008_P	08/27/14 16:25	NI	TAL SPK
Total	Analysis	TA SOP		1.00	1410008	09/02/14 16:07	NI	TAL SPK

Client Sample ID: GEI-B4 (7-8')

Date Collected: 08/11/14 16:10

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-14

Percent Solids: 97.3

Matrix: Soil

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.16	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 13:29	CBW	TAL SPK
Total	Prep	EPA 3580		0.745	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 15:07	NMI	TAL SPK
Total	Prep	EPA 3550B		0.938	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 18:46	NMI	TAL SPK
Total	Prep	EPA 3550B		1.86	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 20:13	NMI	TAL SPK
Total	Prep	EPA 3580		0.76	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/15/14 23:56	NMI	TAL SPK
Total	Prep	EPA 3050B		0.943	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:49	ICP	TAL SPK
Total	Prep	EPA 7471		0.980	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:40	ZZZ	TAL SPK

Client Sample ID: GEI-B5 (2-3')

Date Collected: 08/11/14 10:00

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-15

Percent Solids: 91.4

Matrix: Soil

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 3050B		0.855	14H0160_P	08/27/14 13:45	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0160	08/29/14 11:30	ICP	TAL SPK
Total	Prep	EPA 7471		0.962	14H0162_P	08/28/14 07:09	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0162	08/28/14 14:38	ZZZ	TAL SPK

Client Sample ID: GEI-B5 (7-8')

Date Collected: 08/11/14 10:10

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-16

Matrix: Soil

Percent Solids: 91.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.06	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 13:51	CBW	TAL SPK
Total	Prep	EPA 3580		0.898	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 15:21	NMI	TAL SPK

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

Client Sample ID: GEI-B5 (7-8')

Date Collected: 08/11/14 10:10 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-16

Matrix: Soil

Matrix: Soil
Percent Solids: 91.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.924	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 19:07	NMI	TAL SPK
Total	Prep	EPA 3550B		0.924	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/20/14 11:07	NMI	TAL SPK
Total	Prep	EPA 3550B		1.97	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 20:35	NMI	TAL SPK
Total	Prep	EPA 3580		0.85	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 00:20	NMI	TAL SPK
Total	Prep	EPA 3050B		0.885	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		2.00	14H0088	08/27/14 17:41	ICP	TAL SPK
Total	Prep	EPA 7471		0.962	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:42	ZZZ	TAL SPK

Client Sample ID: GEI-B6 (2-3')

Date Collected: 08/11/14 14:05 Date Received: 08/14/14 10:00 Lab Sample ID: SXH0089-17

Matrix: Soil Percent Solids: 90.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 3050B		0.952	14H0160_P	08/27/14 13:45	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0160	08/29/14 11:34	ICP	TAL SPK
Total	Prep	EPA 7471		0.833	14H0162_P	08/28/14 07:09	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0162	08/28/14 14:41	ZZZ	TAL SPK

Client Sample ID: GEI-B6 (13-14')

Date Collected: 08/11/14 14:25

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-19

Matrix: Soil

Percent Solids: 95.3

Prep Type Total	Type	Method	D			•		
Total	Pren		Run	Factor	Number	or Analyzed	Analyst	Lab
	ПСР	GC/MS Volatiles		1.11	14H0077_P	08/15/14 08:49	CBW	TAL SP
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 14:14	CBW	TAL SP
Total	Prep	EPA 3580		0.885	14H0079_P	08/15/14 10:04	NI	TAL SP
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 15:36	NMI	TAL SP
Total	Prep	EPA 3550B		0.981	14H0093_P	08/19/14 08:36	NI	TAL SP
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 19:28	NMI	TAL SPI
Total	Prep	EPA 3550B		0.981	14H0093_P	08/19/14 08:36	NI	TAL SP
Total	Analysis	EPA 8082A		1.00	14H0093	08/20/14 11:28	NMI	TAL SP
Total	Prep	EPA 3550B		1.98	14H0115_P	08/21/14 08:39	NI	TAL SP
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 20:58	NMI	TAL SP
Total	Prep	EPA 3580		0.91	14H0081_P	08/15/14 11:27	NI	TAL SP
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 00:44	NMI	TAL SP
Total	Prep	EPA 3050B		1.04	14H0088_P	08/18/14 09:11	JSP	TAL SP
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 15:57	ICP	TAL SP
Total	Prep	EPA 7471		0.820	14H0163_P	08/28/14 07:10	JSP	TAL SPI

TestAmerica Spokane

2

5

7

9

Client Sample ID: GEI-B6 (13-14')

Date Collected: 08/11/14 14:25 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-19

Matrix: Soil Percent Solids: 95.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:45	ZZZ	TAL SPK

Client Sample ID: GEI-B7 (13-14') Lab Sample ID: SXH0089-21

Date Collected: 08/11/14 08:45 Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 93.9

<u> </u>	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.35	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 14:36	CBW	TAL SPK
Total	Prep	EPA 3580		0.989	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 15:50	NMI	TAL SPK
Total	Prep	EPA 3550B		0.873	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 19:49	NMI	TAL SPK
Total	Prep	EPA 3550B		1.85	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 21:20	NMI	TAL SPK
Total	Prep	EPA 3580		0.97	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 01:08	NMI	TAL SPK
Total	Prep	EPA 3050B		1.02	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 16:01	ICP	TAL SPK
Total	Prep	EPA 7471		0.962	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:47	ZZZ	TAL SPK

Client Sample ID: GEI-B8 (14-15')

Lab Sample ID: SXH0089-23 Date Collected: 08/11/14 12:15 Matrix: Soil Date Received: 08/14/14 10:00 Percent Solids: 93.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.17	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 14:58	CBW	TAL SPK
Total	Prep	EPA 3580		0.943	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 16:04	NMI	TAL SPK
Total	Prep	EPA 3550B		0.882	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/20/14 12:49	NMI	TAL SPK
Total	Prep	EPA 3550B		1.86	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 21:43	NMI	TAL SPK
Total	Prep	EPA 3580		0.84	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 01:32	NMI	TAL SPK
Total	Prep	EPA 3050B		0.909	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 16:14	ICP	TAL SPK
Total	Prep	EPA 7471		0.735	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:49	ZZZ	TAL SPK

TestAmerica Job ID: SXH0089

Client: Geo Engineers - Spokane

Project/Site: 0504-101-01

Client Sample ID: GEI-B9 (13-14')

Date Collected: 08/11/14 14:10 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-25

Matrix: Soil

Percent Solids: 96.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.911	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 15:20	CBW	TAL SPK
Total	Prep	EPA 3580		0.890	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 16:19	NMI	TAL SPK
Total	Prep	EPA 3550B		0.976	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 20:32	NMI	TAL SPK
Total	Prep	EPA 3550B		1.79	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 22:05	NMI	TAL SPK
Total	Prep	EPA 3580		0.82	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 01:56	NMI	TAL SPK
Total	Prep	EPA 3050B		0.971	14H0088_P	08/18/14 09:11	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0088	08/27/14 16:18	ICP	TAL SPK
Total	Prep	EPA 7471		0.943	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:52	ZZZ	TAL SPK

Client Sample ID: Duplicate 1

Date Collected: 08/11/14 08:00

Date Received: 08/14/14 10:00

Lab Samp	ole ID:	: SXH0089-26	
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Matrix: Soil Percent Solids: 96.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.994	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 15:43	CBW	TAL SPK
Total	Prep	EPA 3580		0.826	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 16:33	NMI	TAL SPK
Total	Prep	EPA 3550B		0.864	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 20:53	NMI	TAL SPK
Total	Prep	EPA 3550B		1.93	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 22:27	NMI	TAL SPK
Total	Prep	EPA 3580		0.83	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 02:20	NMI	TAL SPK
Total	Prep	EPA 3050B		0.962	14H0122_P	08/21/14 14:35	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0122	08/22/14 12:47	ICP	TAL SPK
Total	Prep	EPA 7471		0.877	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:54	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14H0090_P	08/15/14 12:40	NI	TAL SPK
Total	Analysis	TA SOP		1.00	14H0090	08/18/14 10:06	NI	TAL SPK

Client Sample ID: Duplicate 2

Date Collected: 08/11/14 08:00

Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-27 Matrix: Soil

Percent Solids: 91.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.28	14H0077_P	08/15/14 08:49	CBW	TAL SPK

Client Sample ID: Duplicate 2

Date Collected: 08/11/14 08:00 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-27

Matrix: Soil	
Percent Solids: 91.9	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 16:05	CBW	TAL SPK
Total	Prep	EPA 3580		0.992	14H0079_P	08/15/14 10:04	NI	TAL SPK
Total	Analysis	EPA 8011		1.00	14H0079	08/15/14 16:47	NMI	TAL SPK
Total	Prep	EPA 3550B		0.814	14H0093_P	08/19/14 08:36	NI	TAL SPK
Total	Analysis	EPA 8082A		1.00	14H0093	08/19/14 21:14	NMI	TAL SPK
Total	Prep	EPA 3550B		1.82	14H0115_P	08/21/14 08:39	NI	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0115	08/21/14 22:50	NMI	TAL SPK
Total	Prep	EPA 3580		0.85	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 02:44	NMI	TAL SPK
Total	Prep	EPA 3050B		1.01	14H0122_P	08/21/14 14:35	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0122	08/27/14 16:22	ICP	TAL SPK
Total	Prep	EPA 7471		0.980	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:56	ZZZ	TAL SPK

Client Sample ID: HWA-MW1-Composite

Date Collected: 08/12/14 14:45 Date Received: 08/14/14 10:00

Lab Sample ID: SXH0089-28

Matrix: Soil Percent Solids: 94

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.01	14H0077_P	08/15/14 08:49	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	14H0077	08/15/14 16:27	CBW	TAL SPK
Total	Prep	EPA 3580		0.78	14H0081_P	08/15/14 11:27	NI	TAL SPK
Total	Analysis	NWTPH-HCID		1.0	14H0081	08/16/14 03:08	NMI	TAL SPK
Total	Prep	EPA 3050B		0.917	14H0122_P	08/21/14 14:35	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	14H0122	08/27/14 16:25	ICP	TAL SPK
Total	Prep	EPA 7471		0.758	14H0163_P	08/28/14 07:10	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	14H0163	08/28/14 15:59	ZZZ	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: Geo Engineers - Spokane

TestAmerica Job ID: SXH0089

Project/Site: 0504-101-01

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: Geo Engineers - Spokane Project/Site: 0504-101-01

TestAmerica Job ID: SXH0089

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Methods 5035/8260C		TAL SPK
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
EPA 8011	EDB by EPA Method 8011		TAL SPK
EPA 8082A	Polychlorinated Biphenyls by EPA Method 8082		TAL SPK
EPA 8270D	Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
NWTPH-HCID	Hydrocarbon Identification by NWTPH-HCID		TAL SPK
EPA 6010C	Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 11922 E. First Ave., Spokane WA 99206-5302 9405 SW Mimbus Ave., Beaverton, OR 97008-7145 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

FAX 922-5047 FAX 924-9290 X FAX 906-9210 FAX 563-9210 253-922-2310 509-924-9200 503-906-9200 907-563-9200

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253-922-2310 509-924-9200 503-906-9200 907-563-9200

Work Order #: SXH10999

CHAIN OF CUSTODY REPORT

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

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5755 8th Street East, Tacoma, WA, 98424-1317	11922 E. First Ave., Spokane WA 99206-5302	9405 SW Nimbus Ave., Beaverton, OR 97008-7145	tional Airport Rd Ste A10, Anchorage, AK 99502-1119

CLIENT				INVOICE TO:	Eï								TURNAL	TURNAROUND REQUEST	
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THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA, 98424-1317 11922 E. First Ave., Spokane WA, 99206-5302 9405 SW Nimbus Ave., Beaverton, OR 97008-7145 2000 W International Airport Rd Ste A10, Anchorage, AK, 99502-1119

FAX 922-5047 FAX 924-9290/X FAX 906-9210 FAX 563-9210 253-922-2310 509-924-9200 503-906-9200 907-563-9200

Work Order #: SXH0089

CHAIN OF CUSTODY REPORT

ΓΩ	CLIENT:				INVOICE TO:	ä							9	TUR	TURNAROUND REQUEST	UEST	
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TestAmerica Spokane Sample Receipt Form

Work Order #SXH0089 cite	ent:GPDENGIN	eers			Project: Trolley Barn
Date/Time Received: 8-14-14	, J	By:(S			(
Samples Delivered By: Shipping Service Courier Client Other:					
List Air Bill Number(s) or Attach a photocopy of the Air Bill:					
Receipt Phase		Yes	No	NA	Comments
Were samples received in a cooler:		У			
Custody Seals are present and intact:		,		Х	
Are CoC documents present:		_χ_			
Necessary signatures:		\times			
Thermal Preservation Type: Blue Ice Gel Ice Dry Ice None Other:					
Temperature: 4 6 °C Thermometer (C	Dircle one Serial #122	2208348 Ke	eyring IR	Serial # 11	1874910 IR Gun 2)(acceptance criteria 0
Temperature out of range: Not enough ice	☐lce melted ☐w	//in 4hrs of	collection	□NA □	Other:
Log-in Phase Date/Time: 814-11 11-23 By:	: (1)	Yes	Νo	NA	Comments
Are sample labels affixed and completed for ea	ch container	X			
Samples containers were received intact:		X			
Do sample IDs match the CoC		X			
Appropriate sample containers were received for	or tests requested	入			
Are sample volumes adequate for tests request	ed	<u> </u>			
Appropriate preservatives were used for the tes	ts requested	×			
pH of inorganic samples checked and is within i	method specification	X			
Are VOC samples free of bubbles >6mm (1/4" of	diameter)			入	
Are dissolved parameters field filtered				_><_	
Do any samples need to be filtered or preserved	d by the lab			<i>P</i> _	
Does this project require quick turnaround analy	ysis		$-\frac{\lambda}{2}$		
Are there any short hold time tests (see chart be			_>_		
Are any samples within 2 days of or past expirat	tion	\			
Was the CoC scanned		~_	<u> </u>		
Were there Non-conformance issues at login			-	9	
If yes, was a CAR generated #					<u> </u>

24 hours or less	48 hours	7 days		
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS		
Chromium +6	Nitrate/Nitrite	Sulfide		
	Orthophosphate	Aqueous Organic Prep		

Form No. SP-FORM-SPL-002 12 December 2012